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## **2001 Remedial Action Annual Report**

**Medley Farm NPL Site**

*Gaffney, South Carolina*

**March 2002**

*Prepared For  
The Medley Farm Site Steering Committee*

10295407



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ASSESSMENT & REMEDIATION

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RMT, Inc. | Medley Farm NPL Site  
2001 Remedial Action Annual Report

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# **Executive Summary**

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The 2001 annual report for the Medley Farm National Priorities List (NPL) Site (Site) provides a summary and evaluation of groundwater recovery and treatment activities conducted by RMT, Inc. (RMT) during the period of January 1, 2001 through December 31, 2001. A description of soil vapor extraction (SVE) treatment operations and system performance is also included in this report.

Groundwater and soil remediation activities were first initiated at the Site in March 1995. Remedial treatment activities continue to the present day under the oversight of the United States Environmental Protection Agency (USEPA) Region IV and the South Carolina Department of Health and Environmental Control (SC DHEC). The groundwater treatment system presently consists of a series of 11 jet-pump recovery wells, supplemented with three dual-phase (DP) recovery wells. The extracted groundwater is piped to a centrally located treatment plant, where volatile organic compounds (VOCs) are removed from the groundwater by a low-profile air stripper. Laboratory analysis of water samples collected from the effluent sample tap of groundwater treatment system indicates that VOCs are being reduced to levels below the National Pollutant Discharge Elimination System (NPDES) permit limits and that the objectives of the remedial design continue to be met.

Since startup, the groundwater remediation system has recovered and treated approximately 85 million gallons of VOC-affected groundwater. This has resulted in the removal of approximately 230 pounds of VOCs from the aquifer since December 1995. The VOC mass removal rate from the groundwater in 2001 was approximately 1.8 pounds of VOCs per million gallons of groundwater treated.

The soil remediation system consists of a series of nine SVE wells, three DP recovery wells, eight vapor monitoring wells, and a central vacuum unit. This system is designed to collect and remove VOCs from affected vadose zone soils. Seven hundred pounds of VOCs have been removed from SVE Areas 1 and 2 by the SVE system. In 1999, RMT demonstrated that soil cleanup targets in Areas 1 and 2 had been achieved. SVE operations were subsequently terminated in these areas in June 2000. As of December 2001, an estimated total of 1,500 pounds of VOCs have been removed from Area 3 by the SVE system. Thus, an estimated total of approximately 2,200 pounds of VOCs have been recovered from VOC-affected soils using the SVE treatment system since its startup in March 1995. RMT proposes to continue VOC mass removal efforts in Area 3 during 2002. VOC mass removal in Area 3 has improved since the

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well cleanup for now  
july 2002

three DP wells were installed. Once VOC mass removal from Area 3 declines to levels observed in Areas 1 and 2, confirmation sampling of soils in Area 3 will be recommended.

In November 2000, the treatment system was expanded to include three DP recovery wells and one vapor extraction (VE) well. These wells were installed directly beneath the former source area, at the only remaining VOC source to groundwater. These improvements were intended to increase VOC recovery in the former source area of the VOC plume. The DP wells incorporate a vacuum-enhanced pumping system where both soil vapor and groundwater are removed from the subsurface. Data collected during 2001 indicates that increased levels of VOCs are being removed from the former source area through these wells. The estimated mass of VOCs removed from the DP wells in 2001 is roughly equivalent to the mass of VOCs removed in groundwater pumped from the A-system and B-system recovery wells combined.

A Site-wide groundwater sampling event was conducted in December 2001 to update the plume delineation and to evaluate the overall performance of the groundwater recovery and SVE systems. During this sampling event, samples were collected from all Site monitoring wells and recovery wells. The results of this sampling event continue to demonstrate that the observed VOC plume is contracting and that active capture and containment of the plume is ongoing.

VOCs were detected at elevated levels in the groundwater samples collected from monitoring well SW-3 in December 1994. Since start-up of the groundwater recovery system, this well has been dry and additional water quality information has been unavailable. A new well (designated MW-3D) was installed adjacent to well SW-3. MW-3D was completed 20 feet into bedrock, to a total depth of 140 feet. VOC concentrations in this new well are an order of magnitude less than concentrations previously observed in SW-3. This indicates that the VOC source is being effectively remediated in this area of the Site.

The VOC mass recovery in the B-system wells have historically been the highest observed at the Site. This year, B-system VOC recovery has decreased significantly indicating that the DP wells have begun to exert a pronounced influence on the residual VOC source. This has in turn resulted in a significant decline in downgradient groundwater concentration. The installation and operation of the DP wells in the VOC source area has been an effective technical maximization measure (TMM). Continued improvement in the downgradient groundwater quality is expected as a result of these activities.

RMT proposes to continue ongoing TMM at the Site to facilitate the recovery of VOCs from the aquifer. This will be accomplished by conducting pulse pumping of the groundwater recovery system. Periodically, the A-system and B-system will be shutdown to minimize zones of hydrodynamic isolation at the Site while continuous operation of the DP recovery wells is

ongoing. Continuation of pulse-pumping activities and other TMM will be conducted as described in the Statement of Work (SOW) for the Site.

During the year 2002, RMT proposes continued operation and monitoring of the existing SVE and groundwater treatment systems. Considerable improvements were made to the treatment system in 2001. The performance of these systems needs to be monitored to determine if VOC concentrations have decreased to a point where confirmation activities might be initiated. In the event where VOC concentration declines can be confirmed, proposed activities (*i.e.*, testing performance standards verification plan (PSVP) soil borings) will be proposed for agency consideration.

# Section 1

## Introduction

---

Groundwater and soil remediation activities were initiated at the Site by the Medley Farm PRP Group in March 1995. Treatment system startup followed final inspection and approval of the constructed systems by USEPA Region IV and SC DHEC officials. Startup of the Site treatment system signaled the culmination of more than 12 years of Site investigation, detailed design, and construction work. Treatment systems have now been effectively removing and treating VOCs from affected groundwater and soils at the Site since March 1995.

Monitoring, evaluation, and reporting requirements for these treatment systems are addressed in the *Medley Farm Site Performance Standards Verification Plan* (RMT, August 1993). In accordance with the PSVP, an annual assessment report is required to provide a detailed summary and evaluation of groundwater extraction and treatment activities conducted during each calendar year. The current report covers the period from January 2001 through December 2001.

### 1.1 Purpose and Scope

The purpose of this 2001 annual report is as follows:

- Demonstrate the effects of the groundwater recovery system on the water table and assess changes in concentrations and shape of the VOC plume in groundwater.
- Assess whether the current groundwater recovery system is sufficient to achieve remedial action goals and determine if the groundwater treatment system is achieving remedial action goals as stated in the original design.
- Assess whether implementation of technical maximization measures (*i.e.*, pulse pumping and dual-phase pumping) has enhanced recovery of VOCs from the subsurface.
- Evaluate data to determine if remedial action goals have been achieved and assess the appropriateness of the remedial action goals.
- Propose modifications, where needed, to improve system performance.

The scope of this report includes the following:

- Present water table surface and VOC isoconcentration maps to document groundwater flow conditions and delineate the VOC plume.
- Provide concentration versus time graphs for VOCs in monitoring wells and estimate VOC mass removal from the vadose zone and the aquifer to evaluate remediation progress.
- Discuss the performance of the treatment system.

- Evaluate the performance of TMMs implemented at the Site.
- Evaluate the effectiveness of continued SVE and DP operations in removing VOCs from soil in Area 3 and groundwater in Areas 2 and 3 at the Site.

## 1.2 2001 Activities

Activities conducted during 2001 at the Site include operation of the groundwater recovery system and operation of the treatment system for treatment of the VOC-impacted groundwater. The SVE system in Area 3 continued to operate in 2001, as did the DP wells (DP-3-1, DP-3-2, and DP-2-1) installed in 1999.

One new monitoring well, designated MW-3D, was installed in October 2001 at the Site. The well is completed in bedrock adjacent to existing monitoring well SW-3. SW-3 is a dry saprolite well as a result of the water table decline induced by groundwater withdrawals.

Quarterly groundwater monitoring was conducted at specified monitoring wells during the first three quarters of 2001. The annual groundwater sampling event was conducted during the fourth quarter of 2001. Specifics of the monitoring program are described in Section 2 of this report.

## 1.3 Summary of Site Conditions

### 1.3.1 Hydrogeology

The geologic characterization of the Medley Farm NPL Site was presented in the 1995 annual report and supplemented with information gathered during installation of the DP wells in 2000 and the PSVP borings in 1999 (as described in the 2000 Annual Report). The Site geology is a controlling factor on the direction of VOC migration in the subsurface, with significant components which include the following:

- A fault located southeast and downgradient from the recovery wells and which strikes N50E and dips 70 degrees to the southeast.
- The fault is generally parallel to layering in the metamorphosed volcanic and sedimentary rocks that comprise bedrock beneath the Site.

Groundwater at the Site occurs in the saprolite, in a zone of highly fractured and weathered bedrock (identified as the transition zone), and in the fractured bedrock found immediately below the transition zone. The saprolite, transition zone, and shallow bedrock are hydraulically interconnected; therefore, these three hydrostratigraphic units comprise what is considered a single aquifer beneath the Site.

### **1.3.2 Remediation System**

Groundwater is extracted from the subsurface of the Site by a system of 11 jet-pump recovery wells and three DP (dual-phase water and vapor) recovery wells. VOCs are removed from the water by a low-profile air stripper and treated groundwater is discharged to Jones Creek through a NPDES-permitted outfall. Volatile compounds that are stripped from the groundwater are discharged directly to the atmosphere.

VOCs present in affected vadose-zone soils are being treated using a series of SVE wells. A rotary-lobe vacuum pump is used to extract the VOC-affected soil gas, which is then discharged directly to the atmosphere in accordance with SC DHEC requirements. The SVE unit and the low-profile air stripper are the only pieces of treatment equipment that emit VOCs to the atmosphere at the Site. The mass of the VOCs emitted to the atmosphere from the stripper and SVE unit fall well below the *de minimis* threshold of South Carolina Regulation R.61-62.1. This was confirmed during a stack test performed in 1995, shortly after the system went on-line. The Site is, therefore, exempt from State air permitting requirements.

SVE has been employed to remediate vadose zone soils in three areas (Area 1, Area 2, and Area 3) as designated by the Record of Decision (ROD). Soil remediation has been completed in Areas 1 and 2; SVE operations continue in Area 3. Initially, a system of eight SVE wells <sup>were</sup> installed for vapor recovery. This system was enhanced in June 1996 when vapor monitoring wells (VM wells) were connected to the vacuum system to increase the collection of soil vapor contaminants. In October 2000, two DP and one SVE well were installed in Area 3 to further enhance removal of VOCs from subsurface soils in Area 3.

### **1.3.3 Target Constituents**

The USEPA ROD for the Site established remediation target levels for 15 Site-specific VOCs. Of the 15 VOCs, only four (trichloroethene, tetrachloroethene, 1,1-dichloroethene, and 1,2-dichloroethane) have consistently been detected above their respective remediation goals in the past two years. The groundwater monitoring analytical program includes analysis for the 15 Site-specific VOCs.

# **Section 2**

## **Remediation System Operation, Maintenance, and Monitoring**

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The groundwater recovery and treatment system (GWTS) and the SVE system at the Medley Farm NPL Site have been in operation for nearly seven years. The GWTS has recovered and treated approximately 85 million gallons of groundwater, and the SVE system has recovered almost 2,200 pounds of VOCs during that time. This section presents a discussion of the operation, maintenance, and monitoring of the SVE system and the GWTS at the Site.

A summary of monthly GWTS system flow in 2001 is presented in Table 2-1. A chronological summary of operations and maintenance (O&M) activities is presented in Table 2-2.

### **2.1 Modifications to the Groundwater Recovery and Treatment System and Soil Vapor Extraction Systems**

In 2000, three wells were installed that were designed to recover groundwater as well as soil vapor. These three DP wells were fitted with electric submersible pumps and tied to the SVE piping manifold. Recovered groundwater is discharged to the return line of the B-system. In May 2001, RMT personnel observed a small volume of water being recorded by the effluent flow meter on days when the treatment system was shut down. Because the A-system and B-system require manual restart even when power has been restored, RMT suspected that the DP wells were not properly responding to interlocks causing system shut down in the event of power loss. A programmable logic controller (PLC) programming error was subsequently confirmed, the DP wells shut down, and SC DHEC notified of the problem. The programming error has since been corrected and the DP wells are now functionally integrated to the B-system. In the event of a power failure or other event that shuts down the treatment system, the DP wells remain shut down along with the rest of the B-system. Manual restart must be conducted to resume operation for all wells.

### **2.2 Operation of System**

#### **2.2.1 Description of Soil Vapor Extraction System Operation**

The SVE system currently consists of four VE wells, four VM wells, and three DP wells. During 2001, the SVE system operated on a 12-hour per day cycle. A chronological summary of the SVE-related O&M activities is presented in Table 2-2.

## **2.2.2 Description of Groundwater System Operation**

Recovery system operating statistics for 2001 are as follows:

### ***A-system***

- 277 full days of operation
- 23 partial days of operation
- 65 days shut down
- Approximately 5.8 million gallons recovered

### ***B-system***

- 249 full days of operation
- 20 partial days of operation
- 96 days shut down
- Approximately 3.1 million gallons recovered

### ***Dual-phase Wells***

- 282 full days of operation
- 10 partial days of operation
- 73 days shut down
- Approximately 1.6 million gallons recovered, primarily through DP 3-1

RMT made several attempts during 2001 to determine the water levels within the three DP wells. Because of the location of the discharge hose and power lead within the well casing of DP-3-1, it is often difficult to be certain that the water level indicator is giving an accurate reading. When DP 3-1 is not running, the water level is generally above the pump and the water level can be more precisely determined. RMT has not been able to establish the water levels in DP 2-1 and DP 3-2. RMT also observed that the totalizer meters for these wells indicated that no groundwater was being recovered. Although it was possible that the pumps in these wells had failed, we determined through additional tests that the water level in these wells had been drawn down below the pump inlet. Even after the A- and B-systems and DP 3-1 were taken offline during the month of July (from June 25 to July 23), DP 2-1 and DP 3-2 did not recover sufficiently to promote active groundwater recovery.

So what do you think?

## **2.3 Maintenance**

The GWTS systems had several minor operational incidents during 2001. In December 2000, the effluent flow meter failed and required service at the factory. The flow meter was reinstalled in January 2001. A-system jet pump piping required repairs on two occasions. The check valve on the discharge of pump P-100 required replacement. The other maintenance incident of the year occurred when the bearings in pump P-200 seized, which allowed the pump's impeller to contact the volute. After the pump was disassembled, it was clear that the pump shaft, impeller, and seals were no longer serviceable. The pump was subsequently rebuilt, repainted, and reinstalled at the Site. Both the pump and motor shafts were realigned before the pump was placed back into operation. These repairs were conducted by Sanders Brothers of Gaffney, South Carolina.

## **2.4 Monitoring**

### **2.4.1 Soil Vapor Extraction and Groundwater Recovery System**

#### ***Soil Vapor Extraction System***

Vapor samples from individual SVE recovery points and from the stack have been collected to monitor the recovery of VOCs from vadose zone soils. Vapor samples <sup>were</sup> submitted to the Wisconsin Occupational Health Laboratory for a solvent scan analysis. Results of the 2001 SVE monitoring are discussed in Subsection 3.1 of this annual report.

#### ***Groundwater Recovery System Water Level Monitoring***

Groundwater elevations have been measured monthly during 2001 in the Site groundwater monitoring wells, groundwater recovery wells, and piezometers. The 2001 groundwater elevation data are provided on Table 2-3. The groundwater elevations recorded from 1999 through 2001 have been plotted and the resulting hydrographs (see Appendix A) illustrate the variability of water levels measured during the intermittent periods of operating the groundwater recovery system. Corresponding peaks and valleys are observed in the hydrographs of the recovery wells and monitoring wells as a result of system shutdown and startup.

One additional monitoring well was installed at the Site during 2001. Monitoring well MW-3D was installed in October 2001 adjacent to existing well SW-3. Well SW-3 is a dry saprolite well, the result of lowering of the water table and subsequent dewatering of the saprolite. Well MW-3D is a bedrock

well completed 20 feet into bedrock at a depth of 140 feet below ground surface. The boring log and well construction diagram for the new well are provided in Appendix B.

The water elevation data were also used to determine groundwater flow directions. Plate 1 illustrates the water table at the Site, as observed in March, April, July, and December 2001. The number of days of system operation prior to measurement of the water levels is noted on the plate.

The water table configurations observed in March 2001 and December 2001 reflect the cone of depression created when the A-recovery system, the B-recovery system, and the DP wells are operating. The water level observed in well MW-3D during December 2001 indicates that removal of groundwater from the DP wells concurrent with operation of the B-system wells creates a significant cone of depression in the water table across the Site.  
*→ showed only 1 working*

The water table configuration in April 2001 illustrates the cone of depression created with operation of the B-recovery system and the DP wells. The A-recovery system was not operating when water levels were measured in April 2001. With this mode of system operation, a cone of depression is maintained around the B-series and the DP wells, while a low hydraulic gradient remains around the A-series wells.

The water table configuration for July 2001 illustrates groundwater flow conditions with the A-system, the B-system, and the DP wells shut off. In this operational setting, a low hydraulic gradient is still present in the subsurface across the Site, reflecting a remnant from the influence of pumping.

The water table map was generated with consideration of the water elevations measured within the pumping wells. Water elevations within the aquifer will likely be somewhat higher than those observed within the pumping wells while the recovery system is operating, as a result of head losses due to well inefficiencies inherent with pumping wells. However, the water elevations in the pumping wells provide a relative measure of water levels in the aquifer under system operating conditions.

The groundwater recovery system continues to effectively dewater the saprolite zone, and the lack of water in BW-109 and SW-104 indicates increased dewatering occurred during 2001 with operation of the DP wells. Readily discernible cones of depression have been noted across the Site during

operation of the groundwater recovery systems. Low hydraulic gradients have been observed across the Site when pumping is interrupted.

### ***Routine Sampling***

As specified in the *Performance Standards Verification Plan* (RMT, August 1993), groundwater samples were collected quarterly from specified monitoring and recovery wells. Samples collected during the first three quarterly events were analyzed for the Site-specific list of VOCs. In the fourth quarter, the comprehensive "annual" sampling event was conducted during which samples were collected from the list of "annual" monitoring wells. As in previous years, samples were also collected from the recovery wells in the fourth quarter. Collection of water samples from the DP wells has been attempted during each quarterly sampling event. However, sufficient water for sampling has only been present in well DP3-1. Wells DP2-1 and DP3-2 have exhibited insufficient water for sampling even when wells were shut down for several weeks prior to the sampling event.

#### **2.4.2 Groundwater Treatment System**

As required by the Site's NPDES permit, RMT has been collecting samples of the treated effluent since system start-up. Water samples are collected as "grab" samples from a sample tap located between the discharge port of the air stripper and the effluent flume. Monthly flow data and analytical results since start-up are summarized in Table 2-4. These data show that the treatment system has effectively removed the VOCs listed in the NPDES permit to levels that are generally well below the permit limit and usually less than analytical detection limit of 0.001 mg/L. Monthly NPDES DMRs are included in Appendix C.

As mentioned in Subsection 2.3, the system PLC was modified when the DP wells were installed. RMT believes that a small volume of water may have been discharged on May 28, 2001, during a time when the air stripper was not operating. RMT happened to be sampling the effluent on that day, which resulted in a trichloroethene (TCE) detection of 0.034 ppb, slightly above the NPDES permit limit of 0.028 ppb. SC DHEC was notified and the DP wells were shut down. Following repairs to the PLC, the effluent from the treatment system has complied with all discharge parameters.

All quarterly effluent samples collected and analyzed for chronic toxicity testing were deemed to be "passes" in 2001. Tests performed in the first and second quarters of the year were performed using "Short-term Methods for Estimating the Chronic Toxicity of

Effluents . . ." (EPA/600/4-91/002), which is a 20 replicate test. Results generated by that method are statistically evaluated using an  $\alpha$  of 0.05. SC DHEC modified the NPDES permit in August 2001 to incorporate the latest toxicity testing methods recommended by USEPA. The new method, USEPA Method 1002.0, is a 10 replicate test and uses an  $\alpha$  of 0.01. However, the Medley Farm results must still be evaluated with an  $\alpha$  of 0.05. The  $\alpha$  value was not changed because SC DHEC determined that this would have been a major permit modification and would have required placing the permit on public notice. The NPDES permit will be renewed in 2002, and the  $\alpha$  value will be addressed at that time.

## 2.5 Technical Maximization Measures

As a continuation of TMM started in 1998, the A-system was intermittently shut down during 2001. The purpose of operating the A-system intermittently was to potentially disrupt the primary flow paths that have been established within the aquifer and to induce constituent movement through secondary or tertiary flow paths as suggested by USEPA guidance. The B-system was operated continuously during 2001 (except for unplanned shutdowns) to maximize the recovery of VOCs from the B wells.

The installation of DP recovery wells in the SVE area in 2000 has turned out to be an important TMM. Data collected during 2001 indicate this TMM has effectively removed additional VOC mass from the subsurface and contributed to further dewatering of the saprolite beneath the Site. Results of monitoring activities conducted at the DP wells are discussed later in this report.

**Table 2-1**  
**Summary of Monthly Groundwater Recovery**  
**During 2001**

MONTH	FLOW (million gallons)
January	1.092
February	1.076
March	0.922
April	0.888
May	0.905
June	0.633
July	0.452
August	0.937
September	0.963
October	0.865
November	0.778
December	1.006
<b>Total</b>	<b>10.517</b>

**Table 2-2**  
**Summary of Operation and Maintenance Activities**

DATE	DESCRIPTION
01-01-01	A, B, and DP recovery systems operating. Flow approximately 23 gpm. Effluent flow meter out of service for repair.
01-17-01	Adjusted flow rates of DP wells.
01-26-01	Flow meter reinstalled. Effluent flow approximately 24 gpm.
02-14-01	System restarted after power failure.
03-21-01	A and B systems restarted after power failure. DP wells off line for sampling.
03-26-01	A-system pipe repairs; taken off line. B-system and DP wells operating.
04-05-01	A-system return line coupling repaired. A-system on line.
04-16-01	B-system restarted after power failure. A-system off line for check valve replacement.
04-24-01	New check valve installed in A-system pump discharge line. A-system restarted.
04-27-01	B-system shut down to attempt to increase recovery from DP 2-1 and DP 3-2.
05-07-01	DP 2-1 and DP 3-2 have no measurable water level. Restore B-system operations.
05-11-01	Pipe repairs in A-system; shut down recovery system.
05-18-01	Repairs to A-system are complete. Recovery system restarted.
05-21-01	Restarted recovery system after power failure.
05-30-01	PLC reprogramming conducted; DP wells restarted after reprogramming completed.
06-18-01	Restarted recovery system after power failure.
06-25-01	Low tank level shut down recovery system.
06-27-01	PLC programming corrected.
07-02-01	All recovery wells off line except DP 2-1 and DP 3-2 to determine if they are producing any water.
07-23-01	DP 2-1 and DP 3-2 producing no flow. All recovery wells now operating.
08-04-01	P-200 (B-system) pump bearings failed; pump to be removed and repaired.
09-17-01	P-200 reinstalled and aligned. P-100 also aligned. New insulation installed on piping. All recovery systems operating normally.
09-30-01	All recovery wells operating normally.
10-31-01	All recovery wells operating normally.
11-30-01	All recovery wells operating normally.
12-31-01	All recovery wells operating normally.

**Table 2-3**  
**Summary of 2001 Groundwater Elevation Data**

WELL NO.	BOTTOM OF WELL SCREEN	TOP OF CASING ELEV.	WATER ELEV. 02/22/2001	WATER ELEV. 03/16/2001	WATER ELEV. 04/20/2001	WATER ELEV. 04/30/2001	WATER ELEV. 06/05/2001
A-1	539.09	651.73	569.37	569.73	572.95	570.98	569.43
A-2	524.19	643.31	556.52	558.37	570.59	558.06	557.92
A-3	506.77	604.67	510.17	510.17	571.41	510.21	510.32
A-4	530.08	618.09	536.28	536.31	587.36	536.27	536.22
A-5	467.36	603.21	545.21	553.06	572.08	542.56	547.80
A-6	484.31	632.09	546.80	549.06	573.26	547.02	548.27
A-7	485.50	605.10	541.15	542.45	572.95	535.83	542.80
B-1	513.39	660.55	548.46	550.46	541.50	567.03	549.30
B-2	515.51	661.56	562.75	563.81	561.52	569.11	563.76
B-3	509.84	661.84	558.94	558.17	565.71	567.76	565.13
B-4	513.78	665.81	554.21	553.71	553.86	568.10	560.78
SW-1	629.26	690.47	636.47	637.32	636.69	636.84	639.37
BW-1	NS	689.90	636.45	636.53	636.90	636.85	637.34
BW-2	NS	662.99	576.49	576.69	576.70	DRY	DRY
SW-3	592.90	671.31	DRY	DRY	DRY	DRY	DRY
BW-3	NS	574.82	568.04	568.40	567.92	567.93	567.52
SW-4	600.38	671.39	DRY	DRY	DRY	DRY	DRY
BW-4	NS	564.32	558.77	559.42	558.34	556.37	557.99
SW-101	567.30	604.18	572.34	572.71	571.25	571.08	570.50
SW-102	568.85	620.07	574.95	575.49	576.23	575.92	574.97
SW-103	588.40	635.68	DRY	DRY	DRY	DRY	DRY
SW-104	612.46	649.85	DRY	DRY	DRY	DRY	DRY
BW-105	558.57	671.55	583.63	582.65	592.76	590.66	588.89
SW-106	571.91	596.12	576.54	577.62	578.87	578.50	577.04
BW-106	NS	595.76	575.57	578.61	569.52	570.20	567.41
SW-108	583.66	605.28	DRY	DRY	DRY	DRY	DRY
BW-108	NS	605.64	567.47	570.76	576.36	570.98	568.34
SW-109	598.65	661.26	DRY	DRY	DRY	DRY	DRY
BW-109	NS	661.47	DRY	DRY	DRY	DRY	DRY
BW-110	NS	626.36	574.45	574.86	575.82	575.46	574.62
SW-201	UK	620.68	DRY	DRY	DRY	DRY	DRY
BW-201	UK	618.29	560.70	563.36	574.51	563.34	561.89
SW-202	596.86	636.93	DRY	DRY	DRY	DRY	DRY
BW-202	561.36	636.79	592.10	593.65	598.01	595.51	593.11
MLW-1-1	454.71	653.32	560.83	561.77	565.53	564.45	561.05
MLW-1-2	501.21	653.32	560.69	561.52	563.58	566.03	560.92
MLW-1-3	529.71	653.32	562.07	562.51	566.20	565.66	562.69
MLW-1-4	577.18	653.32	577.56	DRY	577.77	577.76	577.43
MLW-3-1	439.26	636.68	552.42	553.20	569.94	555.32	548.75
MLW-3-2	492.76	636.68	550.04	551.89	569.75	551.49	551.40
MLW-3-3	513.26	636.68	551.47	553.22	571.18	552.93	552.83
MLW-3-4	563.76	636.68	DRY	DRY	570.35	DRY	DRY
MW-2-1	450.93	602.8	547.95	550.15	535.32	542.74	534.39
MW-2-2	513.22	602.42	560.15	564.19	572.03	559.60	562.13
MW-3-D		670.28	NM	NM	NM	NM	NM
MW-4-1	525.41	644.8	552.78	554.67	546.37	550.23	547.75
MW-4-2	558.27	644.6	561.89	562.35	570.53	563.07	562.14
PZ-1	560.30	575.41	568.06	568.81	DRY	567.79	567.38
PZ-101	627.04	688.49	632.59	633.13	631.62	631.65	631.92
DP-2-1		677.84	NM	NM	NM	NM	NM
DP-3-1		665.78	NM	NM	NM	NM	NM

**Table 2-3**  
**Summary of 2001 Groundwater Elevation Data**

WELL NO.	BOTTOM OF WELL SCREEN	TOP OF CASING ELEV.	WATER ELEV. 07/02/2001	WATER ELEV. 08/06/2001	WATER ELEV. 09/10/2001	WATER ELEV. 10/12/2001	WATER ELEV. 11/21/2001
A-1	539.09	651.73	575.03	570.73	574.66	569.13	568.93
A-2	524.19	643.31	571.31	559.24	558.73	557.73	557.26
A-3	506.77	604.67	572.19	510.27	510.27	510.20	510.12
A-4	530.08	618.09	586.87	536.21	536.26	536.33	536.19
A-5	467.36	603.21	572.66	544.01	542.60	546.48	547.50
A-6	484.31	632.09	573.53	548.46	547.09	548.45	548.64
A-7	485.50	605.10	573.55	536.60	535.30	540.05	542.10
B-1	513.39	660.55	571.30	566.65	572.35	549.70	552.21
B-2	515.51	661.56	573.67	568.51	574.03	562.35	562.51
B-3	509.84	661.84	574.69	563.49	566.99	558.60	559.09
B-4	513.78	665.81	575.57	563.71	567.36	554.15	555.96
SW-1	629.26	690.47	638.80	637.64	637.22	636.17	636.87
BW-1	NS	689.90	639.04	637.35	636.05	635.94	635.75
BW-2	NS	662.99	576.66	DRY	DRY	DRY	DRY
SW-3	592.90	671.31	DRY	DRY	DRY	DRY	DRY
BW-3	NS	574.82	567.50	567.49	567.52	567.42	567.47
SW-4	600.38	671.39	DRY	DRY	DRY	DRY	DRY
BW-4	NS	564.32	558.05	558.02	557.94	557.90	557.95
SW-101	567.30	604.18	570.51	572.28	573.23	569.92	571.48
SW-102	568.85	620.07	574.45	574.25	574.77	573.50	573.02
SW-103	588.40	635.68	DRY	DRY	DRY	DRY	DRY
SW-104	612.46	649.85	612.91	DRY	DRY	DRY	DRY
BW-105	558.57	671.55	592.58	591.80	590.45	587.04	586.60
SW-106	571.91	596.12	576.53	576.32	575.97	575.24	574.34
BW-106	NS	595.76	573.45	569.81	574.36	566.20	565.86
SW-108	583.66	605.28	DRY	DRY	DRY	DRY	DRY
BW-108	NS	605.64	577.72	570.99	569.34	566.05	565.51
SW-109	598.65	661.26	DRY	DRY	DRY	DRY	DRY
BW-109	NS	661.47	574.86	DRY	DRY	DRY	DRY
BW-110	NS	626.36	574.55	575.05	574.96	573.42	573.83
SW-201	UK	620.68	DRY	DRY	DRY	DRY	DRY
BW-201	UK	618.29	574.55	563.39	561.09	560.16	561.69
SW-202	596.86	636.93	DRY	DRY	DRY	DRY	DRY
BW-202	561.36	636.79	597.27	594.85	593.87	590.88	590.14
MLW-1-1	454.71	653.32	569.35	563.76	567.14	560.14	560.21
MLW-1-2	501.21	653.32	NM	565.29	570.04	560.04	560.28
MLW-1-3	529.71	653.32	569.33	565.65	571.96	561.97	561.33
MLW-1-4	577.18	653.32	577.48	577.57	577.52	577.50	577.55
MLW-3-1	439.26	636.68	569.84	554.93	552.55	552.88	553.09
MLW-3-2	492.76	636.68	569.72	552.31	550.58	551.04	551.27
MLW-3-3	513.26	636.68	571.13	553.75	552.02	552.55	552.77
MLW-3-4	563.76	636.68	570.23	DRY	DRY	DRY	DRY
MW-2-1	450.93	602.8	550.99	562.85	530.41	544.01	550.65
MW-2-2	513.22	602.42	572.55	562.72	561.21	561.66	560.52
MW-3-D		670.28	NM	NM	NM	NM	NM
MW-4-1	525.41	644.8	555.60	562.85	546.43	552.36	555.38
MW-4-2	558.27	644.6	571.24	563.30	564.16	561.81	561.44
PZ-1	560.30	575.41	567.11	567.24	567.24	567.13	567.20
PZ-101	627.04	688.49	632.66	632.44	632.49	632.48	632.24
DP-2-1		677.84	NM	NM	NM	NM	NM
DP-3-1		665.78	NM	NM	NM	NM	NM

**Table 2-3**  
**Summary of 2001 Groundwater Elevation Data**

WELL NO.	BOTTOM OF WELL SCREEN	TOP OF CASING ELEV.	WATER ELEV. 12/10/2001
A-1	539.09	651.73	569.00
A-2	524.19	643.31	557.32
A-3	506.77	604.67	510.18
A-4	530.08	618.09	536.21
A-5	467.36	603.21	548.21
A-6	484.31	632.09	549.18
A-7	485.50	605.10	542.62
B-1	513.39	660.55	551.12
B-2	515.51	661.56	562.53
B-3	509.84	661.84	559.11
B-4	513.78	665.81	555.30
SW-1	629.26	690.47	635.52
BW-1	NS	689.90	635.53
BW-2	NS	662.99	DRY
SW-3	592.90	671.31	DRY
BW-3	NS	574.82	567.65
SW-4	600.38	671.39	DRY
BW-4	NS	564.32	558.17
SW-101	567.30	604.18	570.64
SW-102	568.85	620.07	572.98
SW-103	588.40	635.68	DRY
SW-104	612.46	649.85	DRY
BW-105	558.57	671.55	585.87
SW-106	571.91	596.12	574.14
BW-106	NS	595.76	566.57
SW-108	583.66	605.28	DRY
BW-108	NS	605.64	565.47
SW-109	598.65	661.26	DRY
BW-109	NS	661.47	DRY
BW-110	NS	626.36	572.99
SW-201	UK	620.68	DRY
BW-201	UK	618.29	560.75
SW-202	596.86	636.93	DRY
BW-202	561.36	636.79	589.54
MLW-1-1	454.71	653.32	560.06
MLW-1-2	501.21	653.32	559.98
MLW-1-3	529.71	653.32	561.41
MLW-1-4	577.18	653.32	577.31
MLW-3-1	439.26	636.68	553.13
MLW-3-2	492.76	636.68	551.31
MLW-3-3	513.26	636.68	552.80
MLW-3-4	563.76	636.68	DRY
MW-2-1	450.93	602.8	552.13
MW-2-2	513.22	602.42	561.25
MW-3-D		670.28	560.08
MW-4-1	525.41	644.8	556.12
MW-4-2	558.27	644.6	561.55
PZ-1	560.30	575.41	567.36
PZ-101	627.04	688.49	632.39
DP-2-1		677.84	NM
DP-3-1		665.78	NM

**Table 2-4**  
**Summary of National Pollutant Discharge Elimination System Monitoring Data**

MO-YR	FLOW (mgd)		BOD (mg/L)		pH (su)		VOCs (mg/L)		CHRONIC TOXICITY TESTING (PASS/FAIL)
	AVE	MAX	AVE	MAX	MIN	MAX	AVE	MAX	
Mar-95	0.008	0.015	8.6	<10	7.86	8.11	BDL <sup>(1)</sup>	BDL <sup>(1)</sup>	Pass
Apr-95	0.017	0.032	7.7	13.0	7.76	7.99	BDL	BDL	Pass
May-95	0.060	0.110	6.5	12.0	7.70	8.14	BDL	BDL	Pass
Jun-95	0.016	0.033	5.5	9.0	7.46	7.66	BDL	BDL	Pass
Jul-95	0.051	0.058	9.8	14.0	7.69	8.17	BDL	BDL	Pass
Aug-95	0.047	0.053	12.8 <sup>(2)</sup>	26 <sup>(3)</sup>	7.69	7.98	BDL	BDL	Pass
Sep-95	0.040	0.049	6.1	10.0	6.78	7.83	BDL	BDL	Pass
Oct-95	0.024	0.064	3.6	5.0	7.08	8.15	BDL	BDL	Pass
Nov-95	0.054	0.066	3.1	5.0	7.10	7.59	BDL	BDL	Pass
Dec-95	0.048	0.064	4.1	5.0	7.15	7.49	BDL	BDL	NA
Jan-96	0.047	0.059	4.3	7.6	7.11	7.50	BDL	BDL	NA
Feb-96	0.040	0.075	5.0	5.0	7.08	7.92	BDL	BDL	Pass
Mar-96	0.032	0.064	3.1	5.0	7.29	8.08	BDL	BDL	NA
Apr-96	0.036	0.045	4.2	5.0	6.73	7.85	BDL	BDL	NA
May-96	0.036	0.051	5.6	6.9	6.61	7.98	BDL	BDL	Pass
Jun-96	0.050	0.054	3.7	5.0	6.30	7.67	BDL	BDL	NA
Jul-96	0.045	0.050	2.9	4.6	7.14	7.65	BDL	BDL	NA
Aug-96	0.030	0.059	4.4	5.0	7.00	7.30	BDL	BDL	Pass
Sep-96	0.039	0.060	3.8	5.0	6.98	7.38	BDL <sup>(4)</sup>	BDL <sup>(4)</sup>	NA
Oct-96	0.041	0.050	3.3	5.0	7.15	7.69	BDL	BDL	NA
Nov-96	0.040	0.042	3.1	5.0	7.30	7.85	BDL	BDL	Pass
Dec-96	0.047	0.055	4.2	5.7	7.10	7.80	BDL	BDL	NA
Jan-97	0.048	0.050	4.5	7.6	7.20	7.70	BDL	BDL	NA
Feb-97	0.048	0.050	3.6	4.5	7.30	7.70	BDL	BDL	Pass
Mar-97	0.039	0.049	4.4	5.1	7.20	7.60	BDL	BDL	NA
Apr-97	0.042	0.071	2.6	3.2	7.80	7.80	BDL	BDL	NA
May-97	0.039	0.074	5.5	6.0	6.80	7.90	BDL	BDL	Pass
Jun-97	0.045	0.072	3.8	5.0	6.90	7.80	BDL	BDL	NA
Jul-97	0.041	0.080	3.5	5.0	7.40	8.00	BDL	BDL	NA
Aug-97	0.019	0.079	5.0	5.0	7.00	7.00	BDL	BDL	NA
Sep-97	0.049	0.070	2.8	5.0	6.90	7.50	See Note <sup>(5)</sup>	See Note <sup>(5)</sup>	Pass
Oct-97	0.013	0.032	2.3	3.0	7.00	7.20	BDL	BDL	NA
Nov-97	0.057	0.083	3.5	5.0	6.90	6.90	BDL	BDL	Pass
Dec-97	0.030	0.058	3.2	5.0	7.20	8.00	See Note <sup>(6)</sup>	See Note <sup>(6)</sup>	NA
Jan-98	0.056	0.074	2.0	2.0	7.94	8.01	BDL	BDL	Pass
Feb-98	0.056	0.070	2.0	2.0	7.14	8.02	BDL	BDL	NA

(1) All samples analyzed for permitted volatile organics were below detection limit: 0.001 mg/L for 1,2-DCA, 1,1-DCE, and TCE; and 0.002 mg/L for tetrachloroethene (PCE).

(2) The average BOD<sub>5</sub> value exceeded the permit limit of 10 mg/L.

(3) The maximum BOD<sub>5</sub> value exceeded the permit limit of 20 mg/L.

(4) Starting on Sept. 16, 1996 the detection limit for PCE was reduced to 0.001 mg/L.

(5) VOC concentrations on 9/15/97 were: 1,2-DCA-0.0014, 1,1-DCE-0.0023, PCE-0.0068, TCE-0.019. All detections were below NPDES permit limits.

(6) VOC concentrations on 12/22/97 were: 1,2-DCA-0.031, 1,1-DCE-0.0078, PCE-0.011, TCE-0.038. 1,2-DCA and TCE exceeded NPDES permit limits. Three other samples in December 1997 samples were BDL.

(7) Test would have passed using  $\alpha = 0.01$ .

(8) All VOCs were below 0.001 mg/L except PCE = 0.0021 and TCE = 0.0088 on 10-23-00, which were below NPDES permit limits.

(9) DCA: avg 0.0014, max 0.0025; DCE: avg 0.0013, max 0.002; PCE avg 0.0035, max 0.011; TCE: avg 0.0093, max 0.034 (exceeded limit).

(10) TCE: avg 0.0012, max 0.0019; all others BDL.

(11) DCA: avg 0.007, max 0.008; DCE: avg 0.001, max 0.001; PCE: avg 0.002, max 0.003; TCE: avg 0.006, max 0.009.

(12) DCA: avg 0.0011, max 0.0012; TCE: avg 0.0017, max 0.0023; DCE and PCE were BDL.

**Table 2-4**  
**Summary of National Pollutant Discharge Elimination System Monitoring Data**

MO-YR	FLOW (mgd)		BOD (mg/L)		pH (su)		VOCs (mg/L)		CHRONIC TOXICITY TESTING (PASS/FAIL)
	AVE	MAX	AVE	MAX	MIN	MAX	AVE	MAX	
Mar-98	0.054	0.065	2.0	2.0	7.37	7.78	BDL	BDL	NA
Apr-98	0.053	0.076	2.0	2.0	6.96	7.96	BDL	BDL	Fail
May-98	0.040	0.065	2.0	2.0	7.60	8.18	BDL	BDL	NA
Jun-98	0.064	0.053	4.9	15.4	7.48	8.14	BDL	BDL	Pass (Retest)
Jul-98	0.056	0.072	2.0	2.0	6.46	7.34	BDL	BDL	Pass
Aug-98	0.036	0.061	3.8	11.2	6.80	7.37	BDL	BDL	NA
Sep-98	0.039	0.060	2.0	2.0	6.85	7.50	BDL	BDL	NA
Oct-98	0.043	0.055	2.0	2.0	7.73	8.08	BDL	BDL	Pass
Nov-98	0.034	0.042	2.2	2.9	6.62	8.46	BDL	BDL	NA
Dec-98	0.047	0.029	2.4	3.7	6.96	8.28	BDL	BDL	Pass
Jan-99	0.026	0.049	<2	<2	8.28	8.37	BDL	BDL	Pass
Feb-99	0.042	0.051	<2	<2	7.51	8.35	BDL	BDL	NA
Mar-99	0.046	0.060	<2	<2	7.49	8.10	BDL	BDL	NA
Apr-99	0.027	0.051	<2	5.00	7.19	8.02	BDL	BDL	Fail
May-99	0.033	0.050	<2	<2	6.92	7.51	BDL	BDL	Pass
Jun-99	0.021	0.044	<2	<2	7.04	7.52	BDL	BDL	NA
Jul-99	0.036	0.049	<2	<2	7.14	7.20	BDL	BDL	Fail
Aug-99	0.010	0.039	<2	<2	6.80	7.17	BDL	BDL	NA
Sep-99	0.027	0.065	<2	<2	7.23	7.62	BDL	BDL	Fail
Oct-99	0.027	0.040	<2	<2	7.55	7.82	BDL	BDL	Pass
Nov-99	0.013	0.033	<2	<2	7.12	7.81	BDL	BDL	NA
Dec-99	0.012	0.049	<2	<2	7.10	7.71	BDL	BDL	NA
Jan-00	0.035	0.053	4.40	14.00	6.54	7.96	BDL	BDL	Pass
Feb-00	0.021	0.050	2.30	3.20	7.62	8.01	BDL	BDL	NA
Mar-00	0.020	0.052	3.70	7.10	7.99	8.18	BDL	BDL	NA
Apr-00	0.028	0.052	<2	<2	7.43	8.05	BDL	BDL	Fail <sup>(7)</sup>
May-00	0.033	0.054	2.10	2.20	7.27	8.22	BDL	BDL	Pass
Jun-00	0.027	0.038	<2	<2	7.64	7.95	BDL	BDL	NA
Jul-00	0.038	0.050	7.40	8.00	7.87	8.17	BDL	BDL	Pass
Aug-00	0.032	0.053	<2	<2	7.76	8.20	BDL	BDL	NA
Sep-00	0.038	0.061	<2	<2	7.64	8.34	BDL	BDL	NA

- (1) All samples analyzed for permitted volatile organics were below detection limit: 0.001 mg/L for 1,2-DCA, 1,1-DCE, and TCE; and 0.002 mg/L for PCE.
- (2) The average BOD<sub>5</sub> value exceeded the permit limit of 10 mg/L.
- (3) The maximum BOD<sub>5</sub> value exceeded the permit limit of 20 mg/L.
- (4) Starting on Sept. 16, 1996 the detection limit for PCE was reduced to 0.001 mg/L.
- (5) VOC concentrations on 9/15/97 were: 1,2-DCA-0.0014, 1,1-DCE-0.0023, PCE-0.0068, TCE-0.019. All detections were below NPDES permit limits.
- (6) VOC concentrations on 12/22/97 were: 1,2-DCA-0.031, 1,1-DCE-0.0078, PCE-0.011, TCE-0.038. 1,2-DCA and TCE exceeded NPDES permit limits. Three other samples in December 1997 samples were BDL.
- (7) Test would have passed using  $\alpha = 0.01$ .
- (8) All VOCs were below 0.001 mg/L except PCE = 0.0021 and TCE = 0.0088 on 10-23-00, which were below NPDES permit limits.
- (9) DCA: avg 0.0014, max 0.0025; DCE: avg 0.0013, max 0.002; PCE avg 0.0035, max 0.011; TCE: avg 0.0093, max 0.034 (exceeded limit).
- (10) TCE: avg 0.0012, max 0.0019; all others BDL.
- (11) DCA: avg 0.007, max 0.008; DCE: avg 0.001, max 0.001; PCE: avg 0.002, max 0.003; TCE: avg 0.006, max 0.009.
- (12) DCA: avg 0.0011, max 0.0012; TCE: avg 0.0017, max 0.0023; DCE and PCE were BDL.

**Table 2-4**  
**Summary of National Pollutant Discharge Elimination System Monitoring Data**

MO-YR	FLOW (mgd)		BOD <sub>5</sub> (mg/L)		pH (su)		VOCs (mg/L)		CHRONIC TOXICITY TESTING (PASS/FAIL)
	AVE	MAX	AVE	MAX	MIN	MAX	AVE	MAX	
Oct-00	0.025	0.044	<2	<2	7.17	7.44	(8)	(8)	NA
Nov-00	0.032	0.061	<2	<2	6.89	7.45	BDL	BDL	Pass
Dec-00	0.033	0.040	2.40	3.40	6.64	8.02	BDL	BDL	NA
Jan-01	0.035	0.039	<2	<2	6.57	7.07	BDL	BDL	Pass
Feb-01	0.038	0.042	2.2	2.8	6.58	6.81	BDL	BDL	NA
Mar-01	0.030	0.046	<2	<2	6.83	7.23	BDL	BDL	NA
Apr-01	0.030	0.057	<2	<2	6.74	7.38	BDL	BDL	Pass
May-01	0.029	0.048	<2	<2	6.71	6.89	(9)	(9)	NA
Jun-01	0.021	0.046	2.3	3.5	6.73	8.09	(10)	(10)	NA
Jul-01	0.050	0.065	<2	<2	6.84	6.89	(11)	(11)	NA
Aug-01	0.030	0.046	2.0	2.1	6.71	7.57	(12)	(12)	Pass
Sep-01	0.032	0.040	<2	<2	7.81	8.02	BDL	BDL	NA
Oct-01	0.028	0.032	<2	<2	6.75	7.91	BDL	BDL	Pass
Nov-01	0.026	0.029	<2	<2	7.12	8.47	BDL	BDL	Pass
Dec-01	0.032	0.041	<2	<2	8.00	8.28	BDL	BDL	NA

- (1) All samples analyzed for permitted volatile organics were below detection limit: 0.001 mg/L for 1,2-DCA, 1,1-DCE, and TCE; and 0.002 mg/L for PCE.
- (2) The average BOD<sub>5</sub> value exceeded the permit limit of 10 mg/L.
- (3) The maximum BOD<sub>5</sub> value exceeded the permit limit of 20 mg/L.
- (4) Starting on Sept. 16, 1996 the detection limit for PCE was reduced to 0.001 mg/L.
- (5) VOC concentrations on 9/15/97 were: 1,2-DCA-0.0014, 1,1-DCE-0.0023, PCE-0.0068, TCE-0.019. All detections were below NPDES permit limits.
- (6) VOC concentrations on 12/22/97 were: 1,2-DCA-0.031, 1,1-DCE-0.0078, PCE-0.011, TCE-0.038. 1,2-DCA and TCE exceeded NPDES permit limits. Three other samples in December 1997 samples were BDL.
- (7) Test would have passed using  $\alpha = 0.01$ .
- (8) All VOCs were below 0.001 mg/L except PCE = 0.0021 and TCE = 0.0088 on 10-23-00, which were below NPDES permit limits.
- (9) DCA: avg 0.0014, max 0.0025; DCE: avg 0.0013, max 0.002; PCE avg 0.0035, max 0.011; TCE: avg 0.0093, max 0.034 (exceeded limit).
- (10) TCE: avg 0.0012, max 0.0019; all others BDL.
- (11) DCA: avg 0.007, max 0.008; DCE: avg 0.001, max 0.001; PCE: avg 0.002, max 0.003; TCE: avg 0.006, max 0.009.
- (12) DCA: avg 0.0011, max 0.0012; TCE: avg 0.0017, max 0.0023; DCE and PCE were BDL.

**Table 2-5**  
**Summary of Chronic Toxicity Testing**

MONTH	GROUP	ACUTE TESTS (MORTALITY)			CHRONIC TESTS (REPRODUCTION)		
		ADULTS	DEAD	P/F	AVERAGE OFFSPRING PER FEMALE	VARIANCE	P/F
1Q01 Jan 2001	Control	20	1	Pass	26.3	100.74	Pass
	Test	20	0		29.3	67.70	
2Q01 Apr 2001	Control	20	0	Pass	26.2	66.03	Pass
	Test	20	0		22.6	141.42	
3Q01 Aug 2001	Control	10	0	Pass	29.8	26.40	Pass
	Test	10	0		31.7	19.79	
4Q01 Oct 2001	Control	10	0	Pass	24.7	32.5	Pass
	Test	10	0		23.2	11.3	
4Q01 Nov 2001	Control	10	0	Pass	26.3	97.8	Pass
	Test	10	0		23.5	82.4	

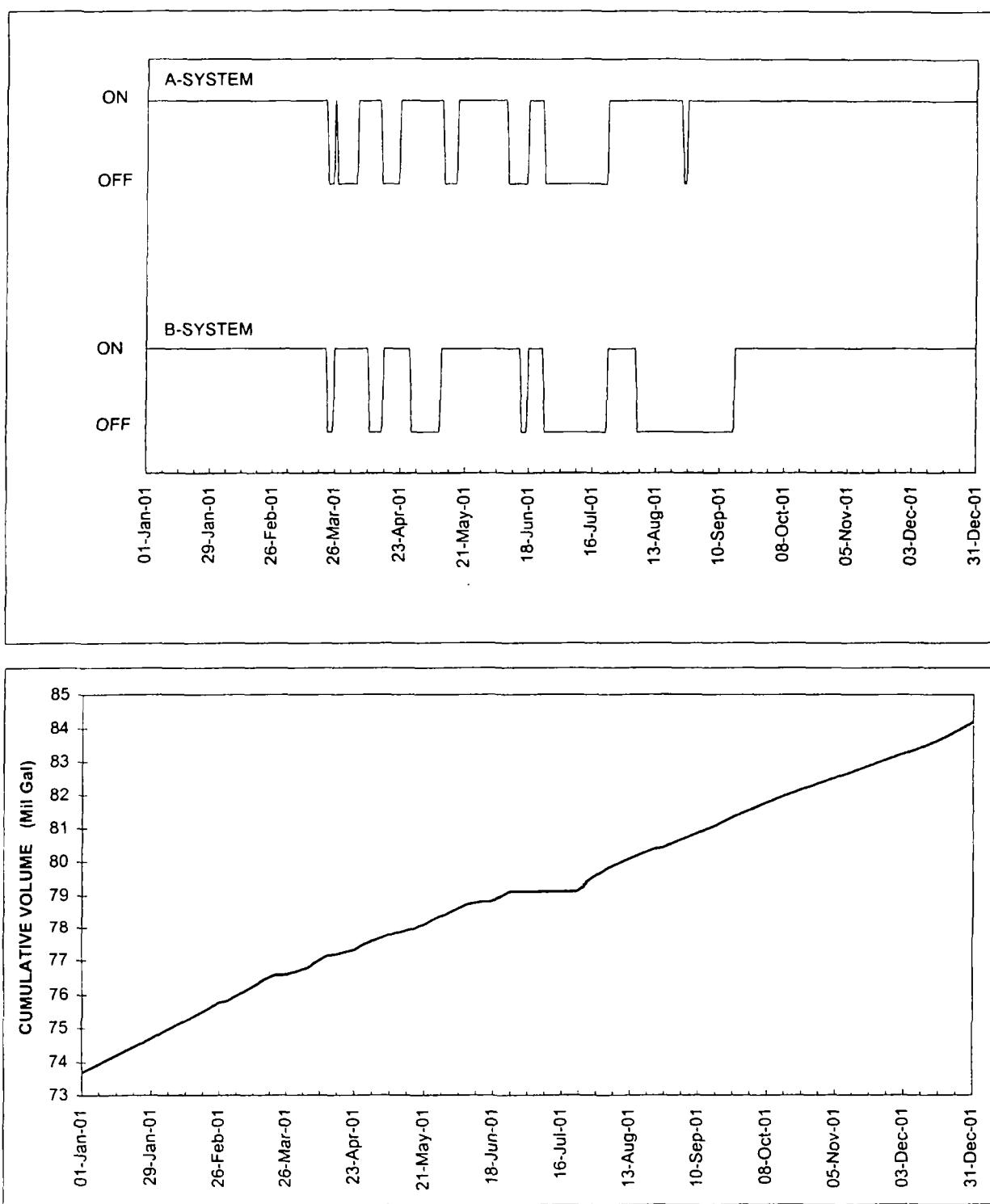


Figure 2-1  
Groundwater Treatment System  
Operating History and Recovery Volume

Medley Farm NPL Site  
March 2002

# Section 3

## Remediation Progress

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The results of SVE vapor and groundwater monitoring provide a way to track the progress of remediation at the Site. This section of the annual report describes the monitoring results for samples collected in 2001 and discusses how VOC concentrations and mass removal rates observed in 2001 compare to historical observations at the Site. The laboratory analytical reports for the soil vapor samples are provided in Appendix D. The laboratory reports for groundwater samples are provided in Appendix E.

### 3.1 Soil Vapor Extraction Performance Monitoring Results

Area 3 remains the only area where soil samples exceeded PSVP standards and SVE operations are required for the vadose zone. There are two DP wells (DP-301 and DP-302), four VE wells (VE-301, VE-302, VE-303, and VE-304), and four VM well nests (VM-301, VM-302, VM-303, and VM-304) extracting soil vapor from Area 3.

As of December 2001, an estimated cumulative total of 1,476 pounds of VOCs have been recovered through SVE operations in Area 3 (Table 3-1). This represents the vast majority of VOC mass removal from the vadose zone. During SVE operations at Areas 1 and 2, approximately 500 pounds of VOCs were removed from vadose zone soils in Area 1 and approximately 200 pounds of VOCs were removed from vadose zone soils in Area 2. VOC recovery from Area 1 and 2 has been described in previous annual reports.

Table 3-1 shows that significant amounts (greater than 100 pounds) of VOCs have been recovered from VE-301, VE-302, VE-303, VM-301D, and VM-304S. The most VOCs have been recovered from VE-303. Graphs of historic VOC recovery rates (PCE, TCE, and total VOCs) for Area 3 are shown in Appendix F. These graphs show that the three parameters (PCE, TCE, and total VOCs) generally trend together and that current recovery rates are much lower than the historical maximums.

### 3.2 Groundwater Sampling Results

Analytical results of groundwater samples collected from monitoring wells and from recovery wells have been summarized on Table 3-2. Groundwater concentrations that exceed the PSVP standard are shaded.

### **3.2.1 Distribution of Volatile Organic Compounds in Groundwater**

The distributions of the four VOCs most frequently detected at concentrations above the PSVP standard (TCE, PCE, 1,2-dichloroethane (1,2-DCA), and 1,1-dichloroethene (1,1-DCE)) are illustrated on Plate 2 for the annual sampling event conducted in December 2001. The size of the VOC plume and the overall plume concentrations have been reduced with each year of groundwater recovery. The center of mass of the plume remains located near the former source area, with the highest concentrations of VOCs detected in recovery wells DP-3-1, B-3, and B-4. The plume is elongated to the northeast from the former source area. The northeasterly trending component of VOC migration is associated with the presence of a northeast/southwest striking fault and steeply dipping beds of foliated bedrock, which imposes structural control on constituent migration.

New bedrock monitoring well MW-3D was sampled for the first time in December 2001. TCE and PCE were detected at concentrations above maximum contaminant levels (MCLs), and 1,1-DCE was detected at a concentration below the MCL. 1,2-DCA was not detected in the new well. The VOC concentrations observed in MW-3D are less than concentrations observed in the past at adjacent well SW-3. Total VOC concentrations observed in SW-3 before the well went dry ranged from approximately 1 to 1.4 mg/L, while the total VOC concentration in MW-3D was 0.074 mg/L in December 2001 (over 10 times lower).

Observations related to the VOC distribution in 2001 are as follows:

- The highest concentrations of the four VOCs of concern at the Site continue to be observed in the former source area. VOC concentrations around the periphery of the plume are significantly lower.
- The northern edge of the VOC plume, as identified by concentrations greater than PSVP standards, has shifted southward. VOC concentrations in A-4, BW-202, and BW-108 were below PSVP standards throughout 2001. TCE was detected at a concentration of 0.005 mg/L in well BW-201 in March 2001, but was reported below the PSVP standard for the remainder of the year.
- The concentration of 1,2-DCA in all monitoring wells remains below the PSVP standard. 1,2-DCA is reported above the PSVP standard in DP-3-1.
- VOC concentrations in A-6 are comparable to those in MLW-3; these locations are thought to be close to the edge of the VOC plume. Similarly, low VOC concentrations in A-4 and comparable concentrations in BW-202 and in BW-108 indicate positions near the plume edge. VOC concentrations are greater in A-7 and A-5, downgradient from A-4. VOC concentrations in MLW-1, downgradient from recovery wells B-1 and B-2, remain below PSVP standards.

- Only one VOC (TCE) was detected in recovery well B-2, located near the former source area. The TCE concentration of 0.0022 mg/L reported in the well is the lowest TCE concentration observed in any of the recovery wells for the 2001 sampling event, and well B-2 is the only recovery well in which only one VOC was detected.
- VOC concentrations in BW-108 and BW-202 were below PSVP standards throughout 2001. At well BW-201, only TCE was reported at the PSVP standard in March 2001; TCE concentrations were below the PSVP standard for the remainder of the year, and no other VOCs were detected at concentrations above the PSVP standard.

### **3.2.2 Time Versus Concentration Trends**

Concentration versus time charts for the four VOCs of concern are presented in Appendix G. Graphs were prepared for 11 groundwater recovery wells and for all monitoring wells that have routinely yielded water for sampling. As described in previous reports, a significant decrease in VOC concentration was noted in most wells during the first year of groundwater recovery. Beginning in the second year of groundwater recovery, VOC concentrations continued to decline, but at a much lower rate

During 2001, VOC concentrations in well MW-2-1 continued to show a strong decreasing trend over time while VOC concentrations in MW-2-2 fluctuated. TCE and PCE concentrations increased in MW-4-1 during 2001, while VOC concentrations in MW-4-2 generally declined. VOC concentrations (TCE and PCE) at the adjacent recovery well A-2 also increased in 2001, while concentrations at most of the other recovery wells declined relative to concentrations observed in November 2000. Concentrations of PCE and TCE in recovery wells B-2 and B-3 declined significantly in 2001 relative to concentrations observed in November 2000. VOC concentrations in B-4 continued a downward trend initially noted in November 1999.

Figure 3-1 presents radar graphs of the VOC data for the recovery wells from 1996 through 2001. Differences are evident in the distribution of VOCs seen in each recovery well over time. The gradual disappearance of 1,2-DCA is noted, as well as a decrease in the amount of 1,1-DCE over time. The graphs also illustrate that TCE remains the most prevalent VOC detected in the recovery wells.

### **3.3 Volatile Organic Compound Mass Removal from Groundwater**

The remediation system at the Site removed an estimated total of slightly less than 170 pounds of VOCs from the groundwater and soil during 2001. The majority of VOC removal (approximately 150 pounds) was recovered from the vadose zone soils via the SVE system in Area 3. The groundwater recovery system is estimated to have removed approximately 18 pounds of VOCs during 2001, (Table 3-3) with the majority of that contributed by the B-system of recovery wells.

The addition of the DP points and vapor extraction point VE-304 appears to have altered the flow of vapors in the vadose zone and enhanced VOC recovery from points in which recovery had tailed off. Table 3-4 summarizes VOC recovery in Area 3 between 1999 and 2001. Several extraction points in Area 3 (such as VE-303 and VM-301D) had virtually no VOC recovery in 2000, but had a significant increase in VOC mass removal in 2001. The most dramatic increase in recovery is noted at VM-303D, VM-304S, and VE-303. The enhancements to the system improved VOC mass removal from the vadose zone in 2001 by almost six times the removal rate in 2000 (150 pounds in 2001 as compared to 25 pounds in 2000).

Similarly, VOC mass removal via groundwater recovery was also enhanced by the addition of the DP wells. VOC mass removal from the DP wells (approximately 11 pounds of VOCs in 2001) was roughly equivalent to that of the A-system and B-system combined (approximately 8 pounds).

Figure 3-2 illustrates the annual estimates of VOC mass removal for the groundwater recovery system since 1995 with the total volume of groundwater pumped. VOC removal dropped off in 1997, and continued to decline in 1999 and 2000. A slight increase in the VOC mass removal is noted in 2001. The volume of groundwater recovered each year has remained at around 10 million gallons since 1999.

**Table 3-1**  
**Cumulative Estimate of VOCs Removed from Area 3**  
**via Soil Vapor through 2001**

WELL NUMBER	TCE (lbs)	1,1,1-TCA (lbs)	PCE (lbs)	1,2-DCA (lbs)	1,1-DCA (lbs)	1,2-DCE (lbs)	TOTAL (lbs)
DP-3-1	0.540	0	3.98	0.280	0	0	4.8
DP-3-2	0.980	0	0.25	1.22	0	0	2.5
VE-301	103	2.17	63.0	110	2.48	1.77	283
VE-302	72.5	0.77	7.46	100	0.79	1.71	183
VE-303	139	0.82	30.0	207	0.59	0.97	378
VE-304	5.98	0	3.26	11.4	0	0.06	21
VM-301S	6.86	0	5.43	5.90	0	0	18
VM-301D	71.5	0	23.7	74.8	0	0	170
VM-302S	0	0	2.42	0	0	0	2
VM-302D	13.1	0	45.9	6.58	0	0	66
VM-303S	0	0	3.11	0	0	0	3
VM-303D	3.22	0	45.1	8.17	0	0	57
VM-304S	62.8	0	2.81	178	0	0	244
VM-304D	19.2	0	1.58	29.4	0	0	50
<b>AREA 3</b>	<b>498</b>	<b>3.76</b>	<b>234</b>	<b>732</b>	<b>3.86</b>	<b>4.51</b>	<b>1,476</b>

Table 3-2  
Summary of Groundwater Analytical Results

PARAMETER <sup>(1)</sup>	PSVP <sup>(2)</sup> STANDARD	LOCATION/SAMPLE DATE									
		A-1 12/11/2001	A-2 12/11/2001	A-3 12/11/2001	A-4 12/11/2001	A-5 12/11/2001	A-6 12/11/2001	A-7 12/11/2001	B-1 12/11/2001	B-2 12/11/2001	
Acetone	0.35	<0.005	<0.012	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	
2-Butanone	2.0	<0.005	<0.012	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	
Chloroform	0.1	0.003	0.023	0.0066	<0.001	0.0049	<0.001	0.002	0.0092	<0.001	
1,1-Dichloroethane	0.35	<0.001	<0.0025	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
1,2-Dichloroethane	0.005	<0.001	<0.0025	<0.001	<0.001	0.0014	<0.001	<0.001	<0.001	<0.001	
1,1-Dichloroethene	0.007	<0.001	<0.0025	0.0023	<0.001	0.0048	0.0012	0.005	0.0023	<0.001	
cis-1,2-Dichloroethene	0.07	0.0015	0.0025	0.0017	<0.001	0.0035	<0.001	0.0016	<0.001	<0.001	
Methylene chloride	0.005	<0.001	<0.0025	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
Tetrachloroethene	0.005	0.0089	0.094	0.021	0.003	0.023	0.0024	0.03	0.017	<0.001	
1,1,1-Trichloroethane	0.2	<0.001	<0.0025	<0.001	<0.001	0.0013	<0.001	<0.001	<0.001	<0.001	
1,1,2-Trichloroethane	0.005	<0.001	0.0039	0.0011	<0.001	<0.001	<0.001	<0.001	0.0011	<0.001	
Trichloroethene	0.005	0.033	0.28	0.047	0.0028	0.058	0.0041	0.046	0.032	0.0022	

PARAMETER <sup>(1)</sup>	PSVP <sup>(2)</sup> STANDARD	LOCATION/SAMPLE DATE									
		B-3 12/11/2001	B-4 12/11/2001	(DU-01401)		BW-105 12/12/2001	BW-108				
				BW-3 12/12/2001	BW-3 12/12/2001		3/22/2001	5/2/2001	8/10/2001	12/12/2001	
Acetone	0.35	<0.012	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
2-Butanone	2.0	<0.012	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Chloroform	0.1	0.0091	0.03	<0.001	<0.001	0.0059	<0.001	<0.001	<0.001	<0.001	<0.001
1,1-Dichloroethane	0.35	<0.0025	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,2-Dichloroethane	0.005	<0.0025	0.0015	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,1-Dichloroethene	0.007	0.024	0.036	<0.001	<0.001	0.0053	<0.001	<0.001	0.00057 J	<0.001	
cis-1,2-Dichloroethene	0.07	0.012	0.0093	<0.001	<0.001	<0.001	0.00063 J	<0.001	0.0009 J	<0.001	
Methylene chloride	0.005	<0.0025	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
Tetrachloroethene	0.005	0.061	0.064	<0.001	<0.001	0.0016	0.0018	0.0041	0.0032	0.0022	
1,1,1-Trichloroethane	0.2	0.0052	0.016	<0.001	<0.001	0.0085	<0.001	<0.001	<0.001	<0.001	
1,1,2-Trichloroethane	0.005	<0.0025	0.0012	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
Trichloroethene	0.005	0.28	0.15	<0.001	<0.001	0.0019	0.0025	0.0046	0.0042	0.0033	

**Table 3-2**  
**Summary of Groundwater Analytical Results**

PARAMETER <sup>(1)</sup>	PSVP <sup>(2)</sup> STANDARD	LOCATION/SAMPLE DATE								
		BW-110	(DU-01301)					BW-202		
			12/12/2001	3/21/2001	5/1/2001	8/9/2001	8/9/2001	12/13/2001	3/21/2001	5/1/2001
Acetone	0.35	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
2-Butanone	2.0	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Chloroform	0.1	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,1-Dichloroethane	0.35	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,2-Dichloroethane	0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,1-Dichloroethene	0.007	<0.001	0.00047 J	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
cis-1,2-Dichloroethene	0.07	<0.001	0.0014	<0.001	0.001	0.0011	<0.001	<0.001	<0.001	<0.001
Methylene chloride	0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Tetrachloroethene	0.005	<0.001	0.003	0.0033	0.0028	0.003	0.0027	0.0033	0.0026	0.003
1,1,1-Trichloroethane	0.2	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,1,2-Trichloroethane	0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Trichloroethene	0.005	<0.001	0.005	0.0042	0.0042	0.0042	0.0039	0.0011	<0.001	0.00091 J

PARAMETER <sup>(1)</sup>	PSVP <sup>(2)</sup> STANDARD	LOCATION/SAMPLE DATE								
		BW-202	(DU-01201)					MLW1-1 12/14/2001	MLW1-2 12/14/2001	MLW1-3 12/14/2001
			12/13/2001	3/22/2001	5/1/2001	5/3/2001	8/10/2001			
Acetone	0.35	<0.005	<0.025	<0.01	<0.01	<0.025	<0.025	<0.005	0.009	0.033
2-Butanone	2.0	<0.005	<0.025	<0.01	<0.01	<0.025	<0.025	<0.005	0.0065	<0.005
Chloroform	0.1	<0.001	0.03	0.029	0.027	0.097	0.078	0.0046	0.005	0.0014
1,1-Dichloroethane	0.35	<0.001	<0.005	<0.002	<0.002	<0.005	<0.025	<0.001	<0.001	<0.001
1,2-Dichloroethane	0.005	<0.001	0.019	0.019	0.021	0.13	0.0075	<0.001	<0.001	<0.001
1,1-Dichloroethene	0.007	<0.001	0.033	0.022	0.022	0.054	0.037	<0.001	<0.001	<0.001
cis-1,2-Dichloroethene	0.07	<0.001	<0.005	0.0023	0.0023	0.016	0.0095	<0.001	<0.001	<0.001
Methylene chloride	0.005	<0.001	<0.005	<0.002	<0.002	<0.005	0.0092	<0.001	<0.0019 Bu	<0.001
Tetrachloroethene	0.005	0.0022	0.086	0.087	0.083	0.22	0.15	<0.001	<0.001	<0.001
1,1,1-Trichloroethane	0.2	<0.001	<0.005	0.0062	0.0063	0.016	0.012	<0.001	<0.001	<0.001
1,1,2-Trichloroethane	0.005	<0.001	<0.005	<0.002	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001
Trichloroethene	0.005	<0.001	0.56	0.25	0.24	0.56	0.39 J	<0.001	<0.001	<0.001

Table 3-2  
Summary of Groundwater Analytical Results

PARAMETER <sup>(1)</sup>	PSVP <sup>(2)</sup> STANDARD	LOCATION/SAMPLE DATE									
		MLW3-1		MLW3-1		MLW3-2			MLW3-3		
		3/19/2001	12/14/2001	3/19/2001	5/2/2001	8/9/2001	12/14/2001	3/19/2001	5/2/2001	8/9/2001	
Acetone	0.35	0.088	0.14	0.025	0.018	0.026	0.013	<0.005	<0.005	0.0059	
2-Butanone	2.0	0.023	0.019	0.0088	<0.005	0.0065	<0.005	<0.005	<0.005	0.0022 J	
Chloroform	0.1	<0.001	<0.001	0.00042 J	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
1,1-Dichloroethane	0.35	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
1,2-Dichloroethane	0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001 *	<0.001	
1,1-Dichloroethene	0.007	0.00057 J	<0.001	<0.001	<0.001	<0.001	<0.001	0.00064 J	<0.001	<0.001	
cis-1,2-Dichloroethene	0.07	<0.001	<0.001	0.00047 J	<0.001	<0.001	<0.001	0.00048 J	<0.001	<0.001	
Methylene chloride	0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.00046 J	
Tetrachloroethene	0.005	0.0028	0.0019	0.002	0.0018	0.00078 J	0.002	0.0021	<0.001	0.0027	
1,1,1-Trichloroethane	0.2	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
1,1,2-Trichloroethane	0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
Trichloroethene	0.005	0.0088	<0.001	0.0076	0.0063	0.0035	0.0066	0.0086	<0.001	0.0084	

PARAMETER <sup>(1)</sup>	PSVP <sup>(2)</sup> STANDARD	LOCATION/SAMPLE DATE								
		MLW3-3 12/14/2001	MW2-1				(DU-01101) MW2-2			
			3/22/2001	5/2/2001	8/10/2001	12/12/2001	3/22/2001	3/22/2001	5/2/2001	8/10/2001
Acetone	0.35	0.0067	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
2-Butanone	2.0	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Chloroform	0.1	<0.001	0.0014	0.0012	0.0013	0.0011	0.004	0.0038	0.0033	0.006
1,1-Dichloroethane	0.35	<0.001	0.00079 J	<0.001	0.00069 J	<0.001	0.00067 J	<0.001	<0.001	<0.001
1,2-Dichloroethane	0.005	<0.001	0.0029	0.0024	0.0021	0.0018	0.0025	0.0024	0.0022	0.0035
1,1-Dichloroethene	0.007	<0.001	0.014	0.013	0.013	0.0088	0.0042	0.0038	0.0045	0.0053
cis-1,2-Dichloroethene	0.07	<0.001	0.0014	0.0013	0.0016	0.0013	0.0036	0.0035	0.0036	0.0042
Methylene chloride	0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Tetrachloroethene	0.005	0.0011	0.016	0.015	0.016	0.011	0.018	0.018	0.021	0.023
1,1,1-Trichloroethane	0.2	<0.001	<0.001	0.0011	0.00092 J	<0.001	<0.001	<0.001	0.0015	0.0015
1,1,2-Trichloroethane	0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Trichloroethene	0.005	0.0037	0.032	0.026	0.027	0.022	0.06	0.059	0.057	0.062

Table 3-2  
Summary of Groundwater Analytical Results

PARAMETER <sup>(1)</sup>	PSVP <sup>(2)</sup> STANDARD	LOCATION/SAMPLE DATE								
		MW2-2 12/12/2001	MW4-1				MW4-2			
			3/22/2001	5/2/2001	8/9/2001	12/13/2001	3/21/2001	5/1/2001	8/9/2001	12/13/2001
Acetone	0.35	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005
2-Butanone	2.0	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005
Chloroform	0.1	0.0052	0.051	0.048	0.049	0.056	0.011	0.009	0.014	0.0067
1,1-Dichloroethane	0.35	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001
1,2-Dichloroethane	0.005	0.0011	0.0018	<0.002	0.0011	0.0015	0.00074 J	<0.001	<0.002	<0.001
1,1-Dichloroethene	0.007	0.0021	0.0056	0.0041	0.0039	0.006	0.0024	0.0025	0.0022	0.0014
cis-1,2-Dichloroethene	0.07	0.0031	0.0023	<0.002	0.0015	0.0018	0.0018	0.0014	0.0019 J	<0.001
Methylene chloride	0.005	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001
Tetrachloroethene	0.005	0.014	0.069	0.084	0.072	0.08	0.04	0.041	0.05	0.028
1,1,1-Trichloroethane	0.2	0.001	<0.001	<0.002	0.0006 J	0.0016	<0.001	<0.001	<0.002	<0.001
1,1,2-Trichloroethane	0.005	<0.001	0.014	<0.002	0.019	0.016	0.00065 J	<0.001	<0.002	<0.001
Trichloroethene	0.005	0.045	0.18	0.17	0.16	0.2	0.16	0.14	0.18	0.11

PARAMETER <sup>(1)</sup>	PSVP <sup>(2)</sup> STANDARD	LOCATION/SAMPLE DATE				
		MW-3D 12/13/2001	(DU-01402) SW-101		SW-102 12/13/2001	
			12/13/2001	12/13/2001		
Acetone	0.35	<0.005	<0.005	<0.005	<0.005	
2-Butanone	2.0	<0.005	<0.005	<0.005	<0.005	
Chloroform	0.1	<0.001	<0.001	<0.001	<0.001	
1,1-Dichloroethane	0.35	<0.001	<0.001	<0.001	<0.001	
1,2-Dichloroethane	0.005	<0.001	<0.001	<0.001	<0.001	
1,1-Dichloroethene	0.007	0.0023	<0.001	<0.001	<0.001	
cis-1,2-Dichloroethene	0.07	0.0029	<0.001	<0.001	<0.001	
Methylene chloride	0.005	<0.001	<0.001	<0.001	<0.001	
Tetrachloroethene	0.005	0.038	<0.001	<0.001	<0.001	
1,1,1-Trichloroethane	0.2	<0.001	<0.001	<0.001	<0.001	
1,1,2-Trichloroethane	0.005	<0.001	<0.001	<0.001	<0.001	
Trichloroethene	0.005	0.031	0.0011	<0.001	<0.001	

<sup>(1)</sup> Analytical results are reported in milligrams per liter (mg/L) unless otherwise noted.

<sup>(2)</sup> Performance standards set from target levels in Table 19 of the Medley Farm ROD

'B (organic) - Present in analytical method blank.

'J - Qualitative mass spectral evidence of analyte present; concentration is less than reporting limit.

'u - Laboratory reported detection not validated during data validation process.

'Shading indicates sample exceeds Performance Standard.

'< - Concentration less than the Quantitation Limit.

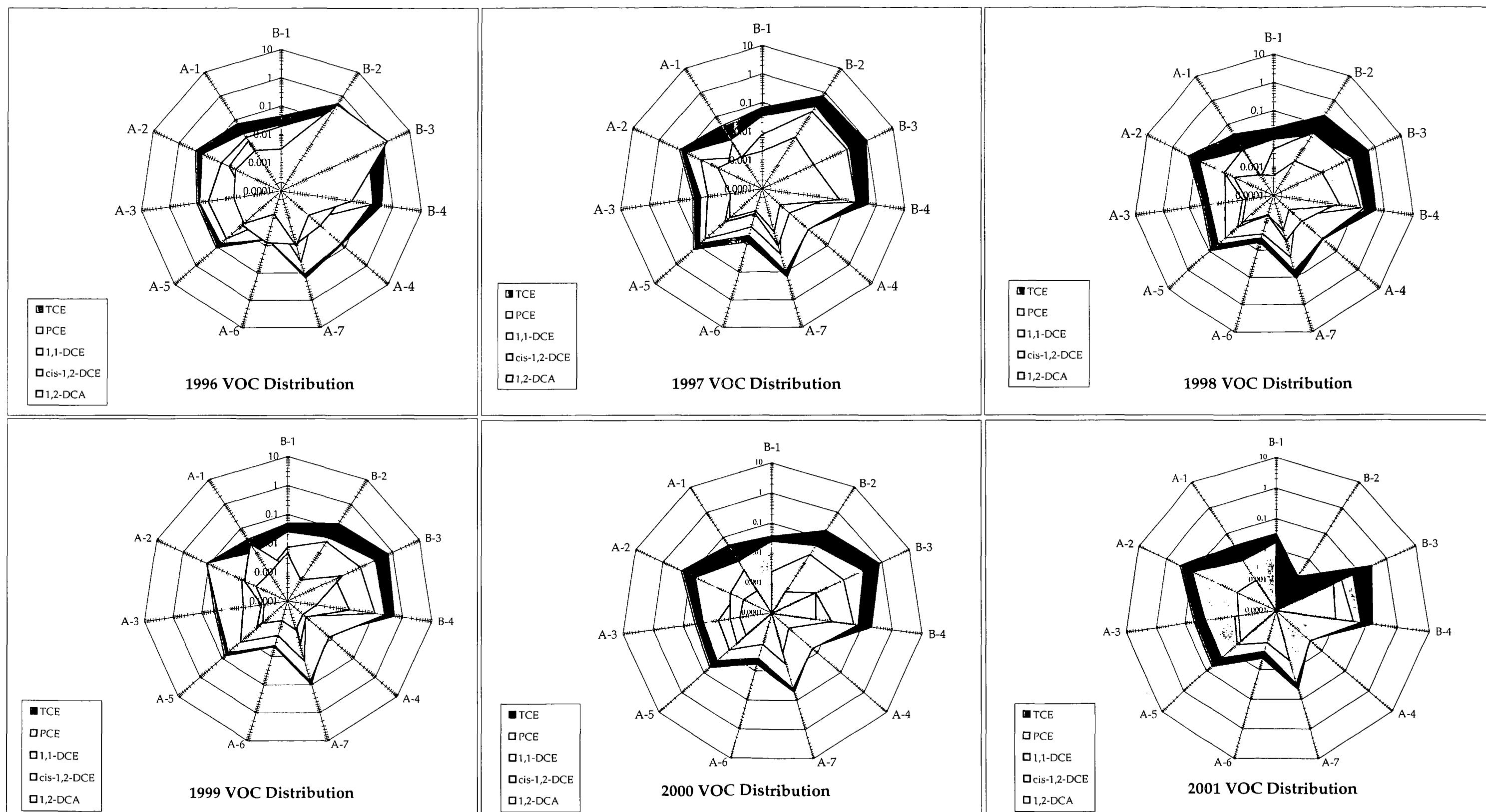
'- Duplicated analysis not within control limits.

**Table 3-3**  
**Estimated VOC Mass Removed From Groundwater in 2001**

RECOVERY WELL	PERCENT OF TOTAL	ESTIMATED VOLUME OF WATER RECOVERED		TVOCs (mg/L)	VOC MASS REMOVED		
		(gal)	(L)		(kg)	(lbs)	Ib/Mgal
A-1	2%	116,000	440,000	0.0464	0.02	0.04	
A-2	16%	926,000	3,500,000	0.4034	1.41	3.12	
A-3	10%	579,000	2,190,000	0.0797	0.17	0.38	
A-4	14%	810,000	3,070,000	0.0058	0.02	0.04	
A-5	16%	926,000	3,500,000	0.0969	0.34	0.75	
A-6	30%	1,737,000	6,570,000	0.0077	0.05	0.11	
A-7	12%	695,000	2,630,000	0.0846	0.22	0.49	
<b>A total</b>		<b>5,789,000</b>	<b>21,900,000</b>		<b>2.2</b>	<b>4.9</b>	<b>0.85</b>
B-1	30%	942,000	3,570,000	0.0616	0.22	0.48	
B-2	40%	1,256,000	4,750,000	0.0022	0.01	0.02	
B-3	15%	471,000	1,780,000	0.3913	0.70	1.54	
B-4	15%	471,000	1,780,000	0.3080	0.55	1.21	
<b>B total</b>		<b>3,139,000</b>	<b>11,880,000</b>		<b>1.5</b>	<b>3.3</b>	<b>1.04</b>
DP 2-1		216,000	820,000	0.12	0.10	0.22	
DP 3-1		1,216,000	4,600,000	0.74	3.40	7.50	
DP 3-2		156,000	590,000	2.12	1.25	2.76	
<b>DP total</b>		<b>1,588,000</b>	<b>6,010,000</b>		<b>4.8</b>	<b>10.5</b>	<b>6.60</b>
<b>System total</b>		<b>10,516,000</b>	<b>39,800,000</b>		<b>8.5</b>	<b>18.7</b>	<b>1.78</b>

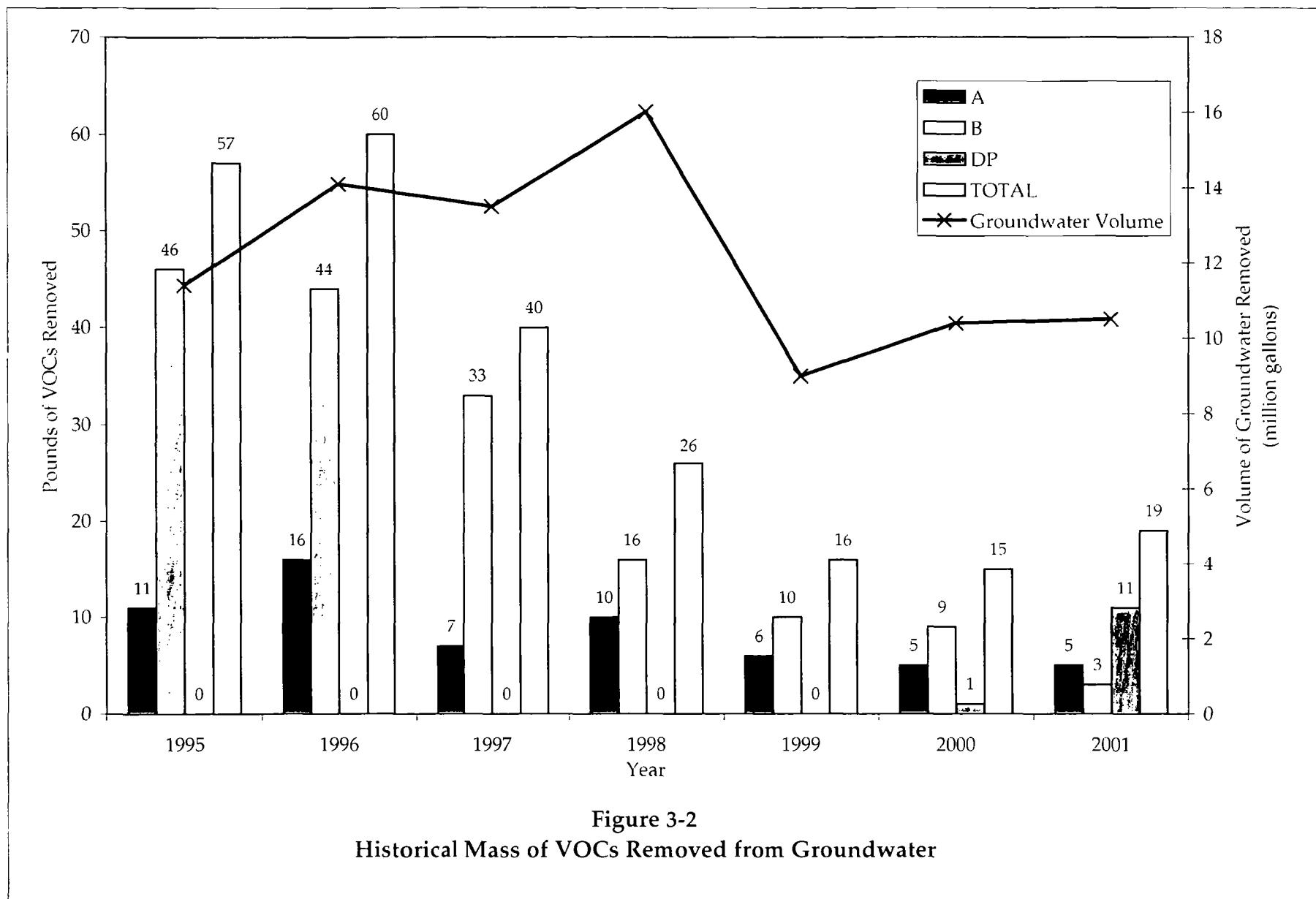
**Table 3-4**  
**Total Mass (lbs) of VOCs Removed Per Year**  
**by SVE from Area 3**  
**1999 - 2001**

WELL NUMBER	YEAR		
	2001	2000	1999
DP-3-1	4.8	NA	NA
DP-3-2	2.5	NA	NA
VE-301	0.8	0.0	0.0
VE-302	1.9	0.0	0.1
VE-303	17.3	0.0	2.4
VE-304	20.7	NA	NA
VM-301S	2.0	0.0	0.3
VM-301D	9.5	0.0	0.4
VM-302S	0.0	0.0	0.0
VM-302D	9.9	1.9	5.4
VM-303S	2.4	0.3	0.5
VM-303D	23.0	5.9	13.5
VM-304S	43.8	14.9	29.2
VM-304D	11.1	2.8	12.4



Concentrations graphed in mg/L on a logarithmic scale.

**Figure 3-1**  
**VOCs Detected in Recovery Wells**  
**1996-2001**



**Figure 3-2**  
**Historical Mass of VOCs Removed from Groundwater**

# Section 4

## Conclusions and Recommendations

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The following conclusions and recommendations have been developed based on data collected from the Site during 2001 and the data evaluations described in previous sections of this report.

### 4.1 Conclusions

- The groundwater remediation system has recovered and treated approximately 85 million gallons of water. This has resulted in the removal of more than 240 pounds of VOCs from the groundwater since system startup in December 1995. The ratio of VOC mass recovery per volume of groundwater recovered has steadily declined from a high in 1995 of 5.11 pounds of VOCs per million gallons (lb/Mgal) of groundwater recovered to a value of 1.8 lb/Mgal recovered in 2001.
- The performance of the groundwater treatment system continues to reduce VOC concentrations in the effluent well below NPDES permit requirements and achieve the objectives of the remedial design.
- The SVE treatment system has recovered over 2,150 pounds of VOCs from vadose zone soils since startup of the system in March 1995. VOC recovery from the SVE system increased six fold (150 pounds of VOCs removed in 2001 as compared to approximately 25 pounds of VOCs removed in 2000) as a result of the installation of an additional vapor extraction point and three DP wells in the source area.
- The SVE system continues to provide more effective mass removal of VOCs from the subsurface at the Site than the groundwater system. Approximately 150 pounds of VOCs were removed from the subsurface by the SVE system in Area 3, while approximately 18 pounds of VOCs were removed from the subsurface by the groundwater treatment system during 2001.
- VOC concentrations in downgradient wells SW-101 and BW-110 have not increased and did not exceed PSVP performance standards during 2001. VOC concentrations in MLW-1 have remained below PSVP standards. This is a good indication that effective capture of the VOC-impacted groundwater is being achieved by treatment operations.
- TCE and PCE were detected in monitoring well SW-3 at concentrations of 0.62 mg/L and 0.76 mg/L, respectively in December 1994. Since that time, the well has been dry as a result of the groundwater recovery operations. Monitoring well MW-3D was installed in October 2001 into bedrock at a location adjacent to SW-3. VOC concentrations in this new well are an order of magnitude less than VOC concentrations previously observed in SW-3. This is a good indication that the VOC source is being effectively remediated in this area.

- The VOC concentration in groundwater recovered from the B-system wells have historically produced the highest VOC concentrations. The observed level of VOCs in these wells has decreased significantly (particularly well B-2) indicating that the DP wells have begun to exert a pronounced influence on the residual VOC source. This has, in turn, resulted in a significant decline in downgradient groundwater concentration.
- Although groundwater is no longer being recovered from wells DP -2-1 and DP-3-2, the applied vacuum in these wells has been effective in recovering VOCs from the vadose zone soils of Area 3. *reduced contribution  
of these wells?*
- Installation of the DP wells has been the most effective TMM implemented at the Site to date. Continued improvement in the downgradient groundwater quality is expected as a result of these improvements to treatment operations.

## 4.2 Recommendations

Based on observations acquired during treatment system operations in 2001 and data acquired through groundwater and soil sampling, the following recommendations and operational modifications are proposed.

1. The year 2002 appears to be a "wait and see" year. Continued operation of the existing SVE system and pulsed pumping of the groundwater recovery system is recommended for the remainder of the year. The performance of these treatment systems needs to be monitored until such time as a concentration decrease is observed (in either groundwater or soil vapors) that warrants additional investigation or confirmation activities. In the event that such VOC concentration declines are observed, proposed activities (*i.e.*, testing of additional PSVP confirmation soil borings) will be proposed for Agency review and consideration.
2. As with previous years, quarterly and annual groundwater sampling will be conducted in 2002 to update and refine the VOC plume distribution and to allow for evaluation of corrective measures as provided in the ROD.
3. Quarterly sampling of the SVE system is recommended to evaluate VOC removal from the residual VOC source remaining in Area 3. RMT anticipates completing SVE operations in this area soon.
4. Collect quarterly samples of groundwater from the DP wells whenever present. Wells DP-2-1 and DP-3-2 will likely remain dry. However, a quarterly groundwater sample should be collected in the event that the well's totalizer meter indicates that groundwater is present

**Figure 4-1**  
**Remediation System 2002 Operating and Monitoring Schedule**

Quarter	W/E	System			QSE	NPDES Monitoring				SVE Monitoring
		A	B	DP		BOD	pH	VOCs	Toxicity	
1	4-Jan-02	R	R	R		X	X	X		
	11-Jan-02	R	R	R		X	X	X	X	
	18-Jan-02	R	R	R		X	X	X		
	25-Jan-02	R	R	R		X	X	X		
	1-Feb-02	R	R	R		X	X	X		
	8-Feb-02	R	R	R		X	X	X	X	
	15-Feb-02	R	R	R		X	X	X		
	22-Feb-02	R	R	R		X	X	X		
	1-Mar-02	R	R	R		X	X	X		
	8-Mar-02	R	R	R		X	X	X		
	15-Mar-02	R	R	R		X	X	X		
	22-Mar-02	R	R	R		X	X	X		
2	29-Mar-02	R	R	R		X	X	X		
	5-Apr-02	R	R	R		X	X	X		
	12-Apr-02	R	R	R		X	X	X		
	19-Apr-02	R	R	R		X	X	X		
	26-Apr-02	R	R	R		X	X	X		
	3-May-02	R	R	R		X	X	X	X	
	10-May-02	R	R	R		X	X	X	X	
	17-May-02	R	R	R		X	X	X		
	24-May-02	R	R	R		X	X	X		
	31-May-02	R	R	R		X	X	X		
	7-Jun-02	R	R	R		X	X	X		
	14-Jun-02	R	R	R		X	X	X		
3	21-Jun-02	R	R	R		X	X	X		
	28-Jun-02	R	R	R		X	X	X		
	5-Jul-02	R	R	R		X	X	X		
	12-Jul-02	R	R	R		X	X	X	X	
	19-Jul-02	R	R	R		X	X	X		
	26-Jul-02	R	R	R		X	X	X		
	2-Aug-02	R	R	R		X	X	X		
	9-Aug-02	R	R	R		X	X	X		
	16-Aug-02	R	R	R		X	X	X		
	23-Aug-02	R	R	R		X	X	X		
	30-Aug-02	R	R	R		X	X	X		
	6-Sep-02	R	R	R		X	X	X		
4	13-Sep-02	R	R	R		X	X	X		
	20-Sep-02	R	R	R		X	X	X		
	27-Sep-02	R	R	R		X	X	X		
	4-Oct-02	R	R	R		X	X	X		
	11-Oct-02	R	R	R		X	X	X	X	
	18-Oct-02	R	R	R		X	X	X		
	25-Oct-02	R	R	R		X	X	X		
	1-Nov-02	R	R	R		X	X	X		
	8-Nov-02	R	R	R		X	X	X		
	15-Nov-02	R	R	R		X	X	X		
	22-Nov-02	R	R	R		X	X	X		
	29-Nov-02	R	R	R		X	X	X		
	6-Dec-02	R	R	R		X	X	X		
	13-Dec-02	R	R	R		X	X	X		
	20-Dec-02	R	R	R		X	X	X		
	27-Dec-02	R	R	R		X	X	X		

QSE = Quarterly Groundwater Sampling Event

R = System Running

Blank indicates system shutdown period.

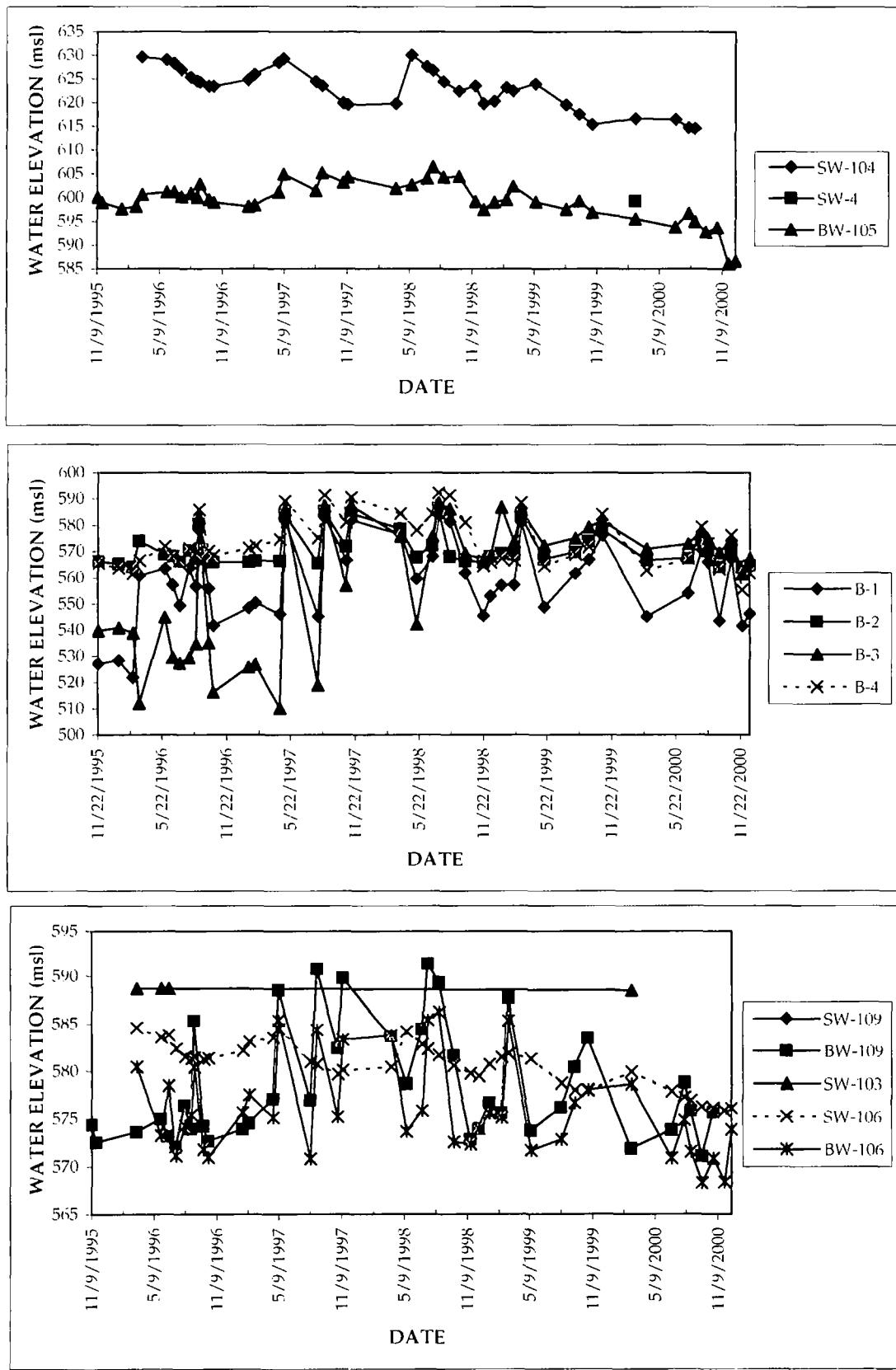
BOD = Biochemical Oxygen Demand

# **Appendix A**

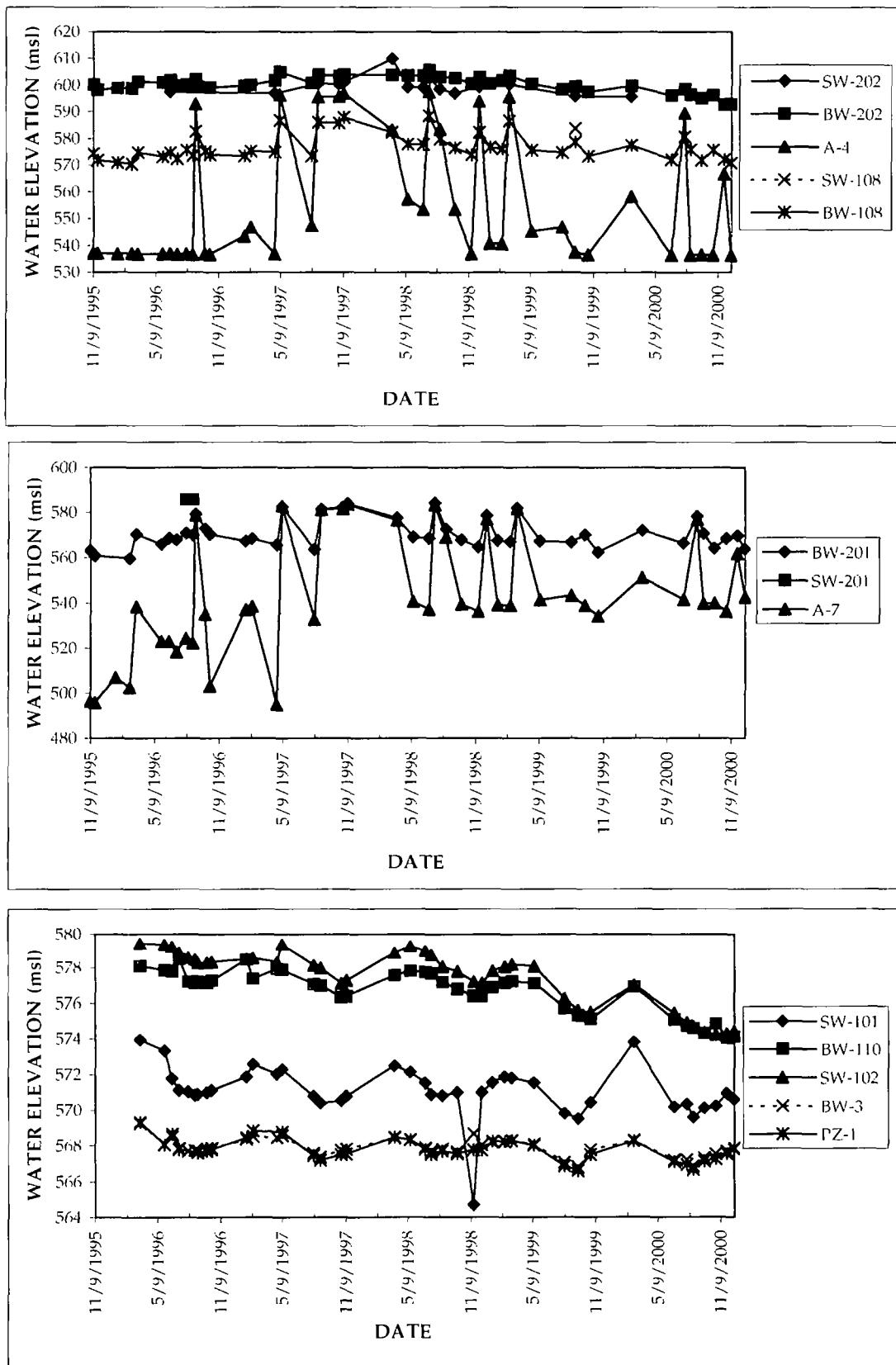
## **Hydrographs of Groundwater Monitoring and Extraction Wells**

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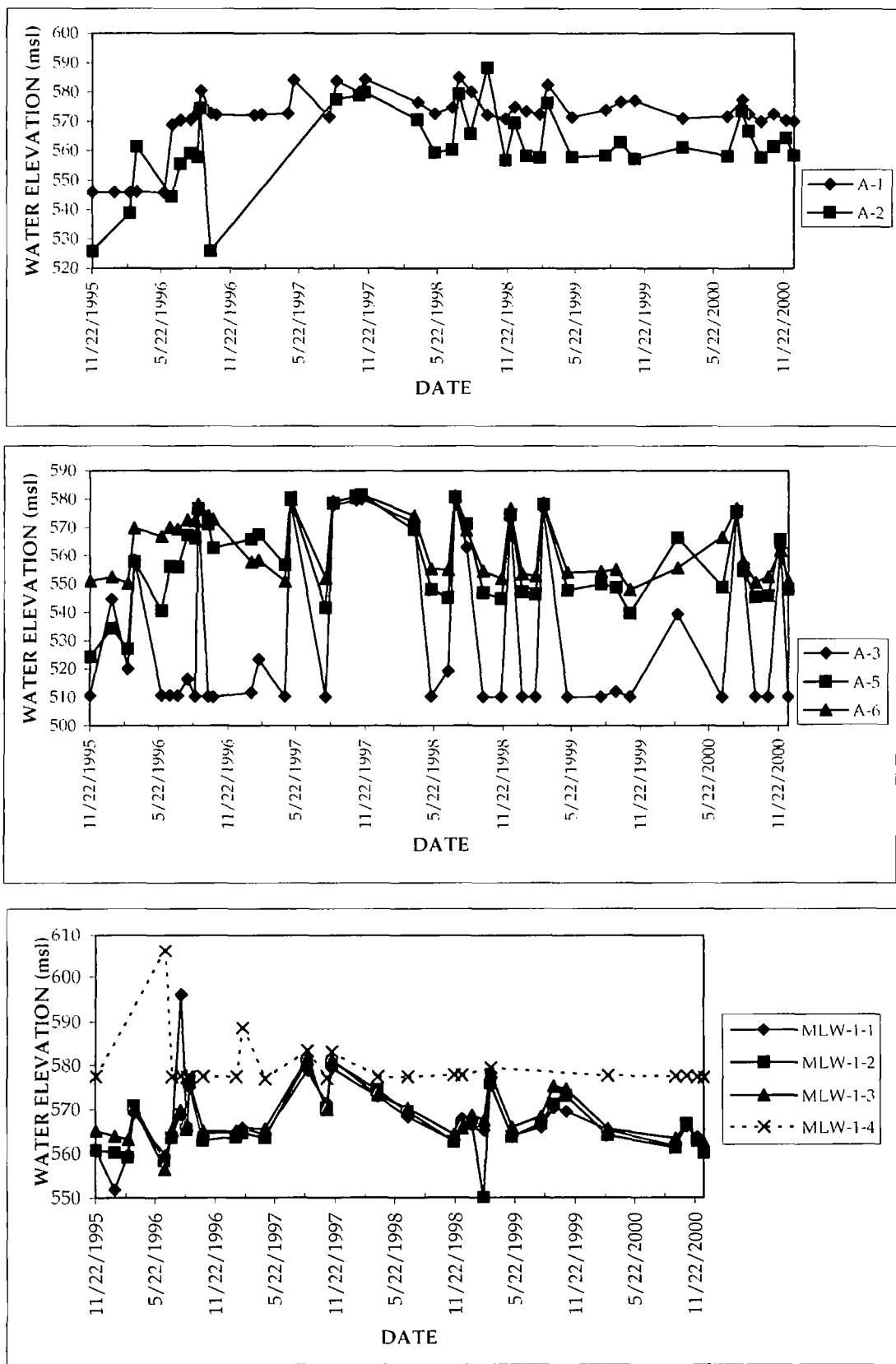
## Hydrographs of Monitoring and Recovery Wells



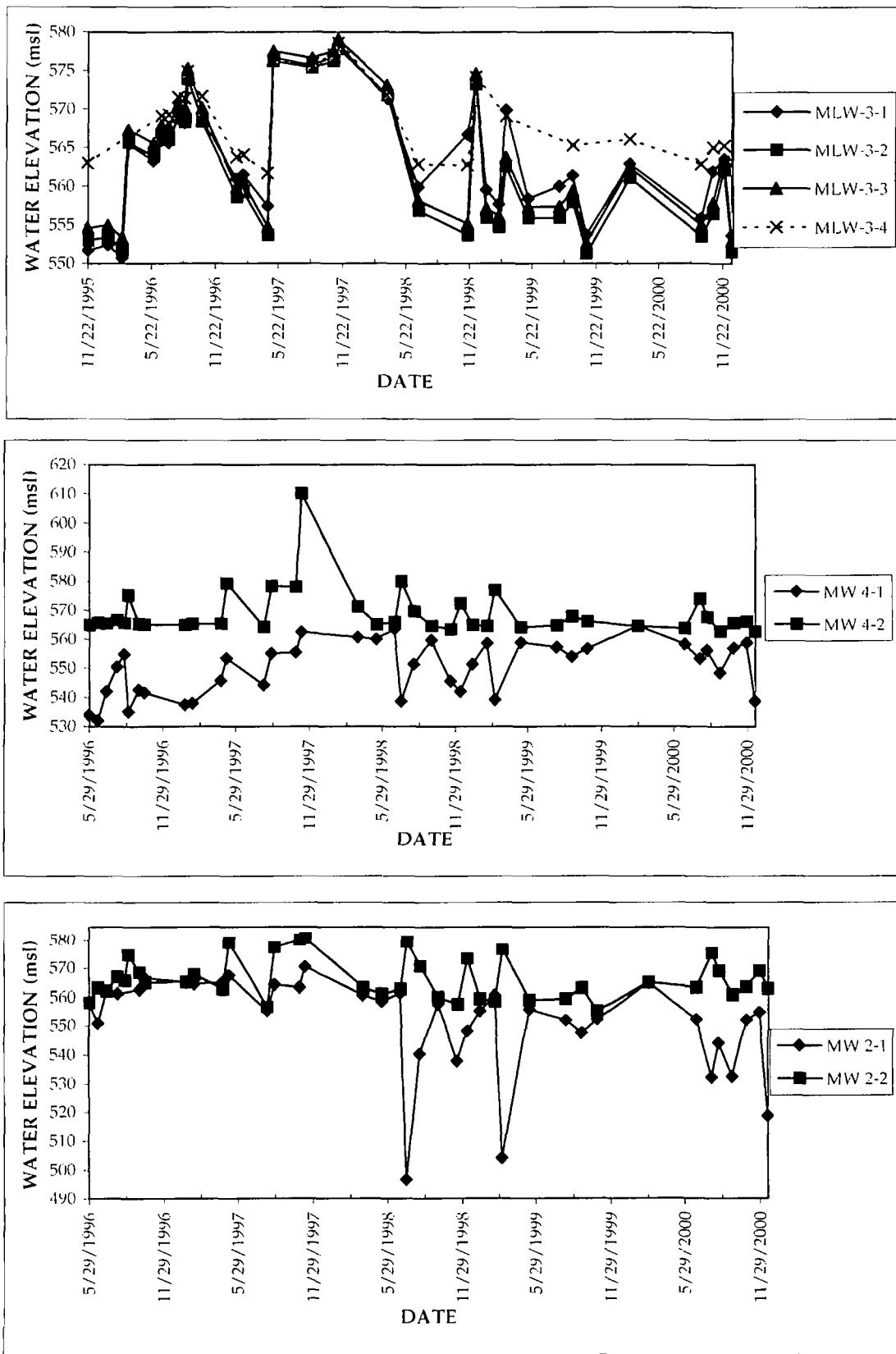
## Hydrographs of Monitoring and Recovery Wells



## Hydrographs of Monitoring and Recovery Wells



## Hydrographs of Monitoring and Recovery Wells



# **Appendix B**

## **Boring Log and Well Construction**

### **Diagram for MW-3D**

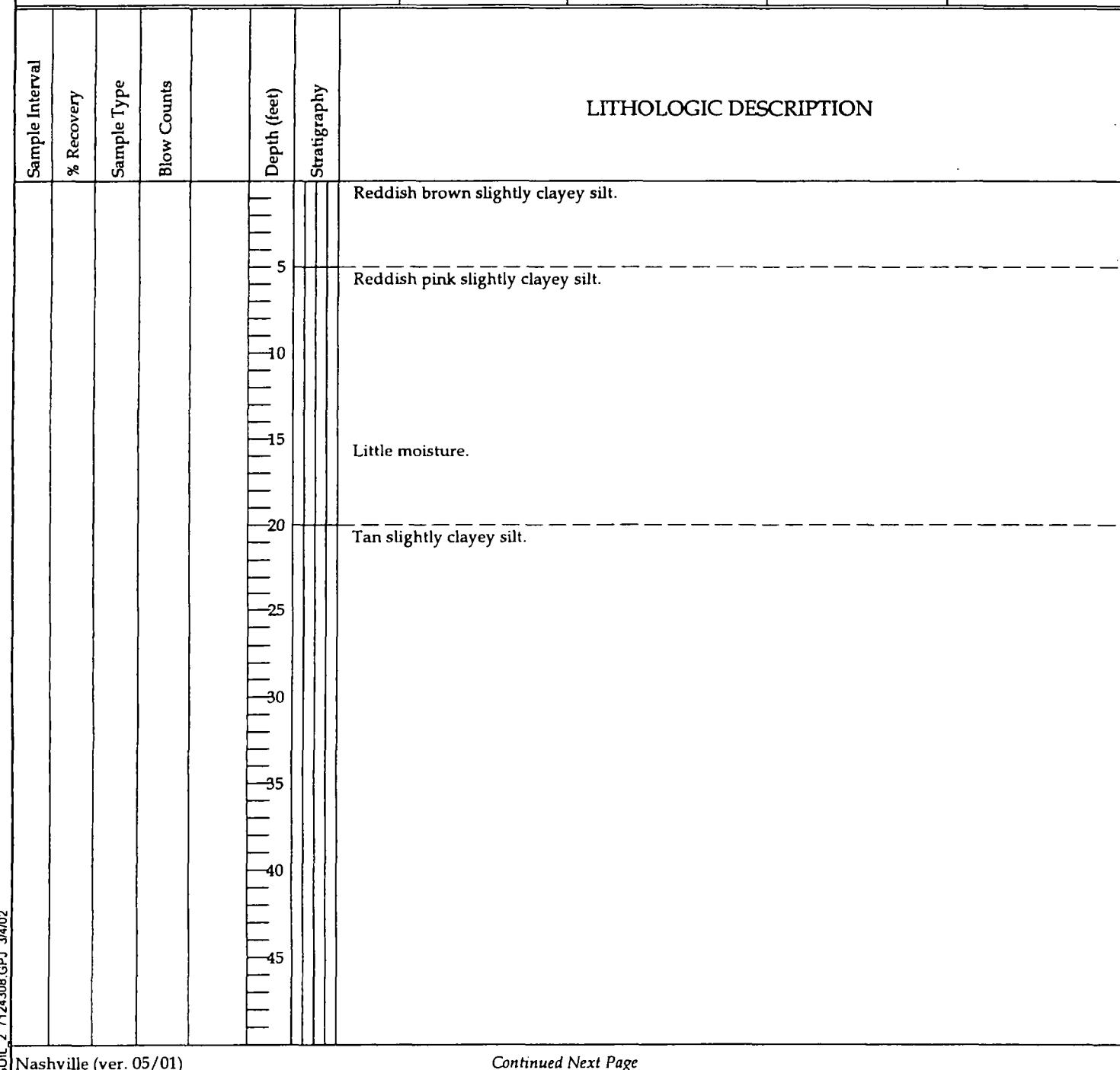
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## SOIL BORING LOG

BORING NO. MW-3D

Client: Medley Farm Steering Committee	Drilling Start Date: 10-30-01	Drilling End Date: 10-31-01	Page of 1 3
Site: Medley Farm, Gaffney, South Carolina	Drilling Method: Air Rotary		Project Number: 71243.08
Geologist/Technician: Adam Motes/M Miesfeldt	Driller (name/company): Richard Simmons	Drill Rig Type:	Borehole Diameter (in) 8-7/8 to 5-3/4
Boring Coordinates: N: 9404.50 E: 7429.70	Total Depth (ft.): 140.00	Measuring Point Elevation (ft.): 668.70	
Datum Description: Land Surface	Datum Elevation (ft.): 668.7	Checked by:	





## SOIL BORING LOG

BORING NO. MW-3D

Client: Medley Farm Steering Committee	Drilling Start Date: 10-30-01	Drilling End Date: 10-31-01	Page of 2 3
Site: Medley Farm, Gaffney, South Carolina	Drilling Method: Air Rotary		Project Number: 71243.08
Geologist/Technician: Adam Motes/M Miesfeldt	Driller (name/company): Richard Simmons	Drill Rig Type:	Borehole Diameter (in): 8-7/8 to 5-3/4
Boring Coordinates: N: 9404.50 E: 7429.70	Total Depth (ft.): 140.00	Measuring Point Elevation (ft.): 668.70	
Datum Description: Land Surface	Datum Elevation (ft.): 668.7	Checked by:	

Sample Interval	% Recovery	Sample Type	Blow Counts	Depth (feet)	Stratigraphy	LITHOLOGIC DESCRIPTION			
						55	60	65	70
						Light gray slightly clayey silt.	Tan slightly clayey silt.	Some coarser material.	Silt with some coarser material (transition zone?), dry.



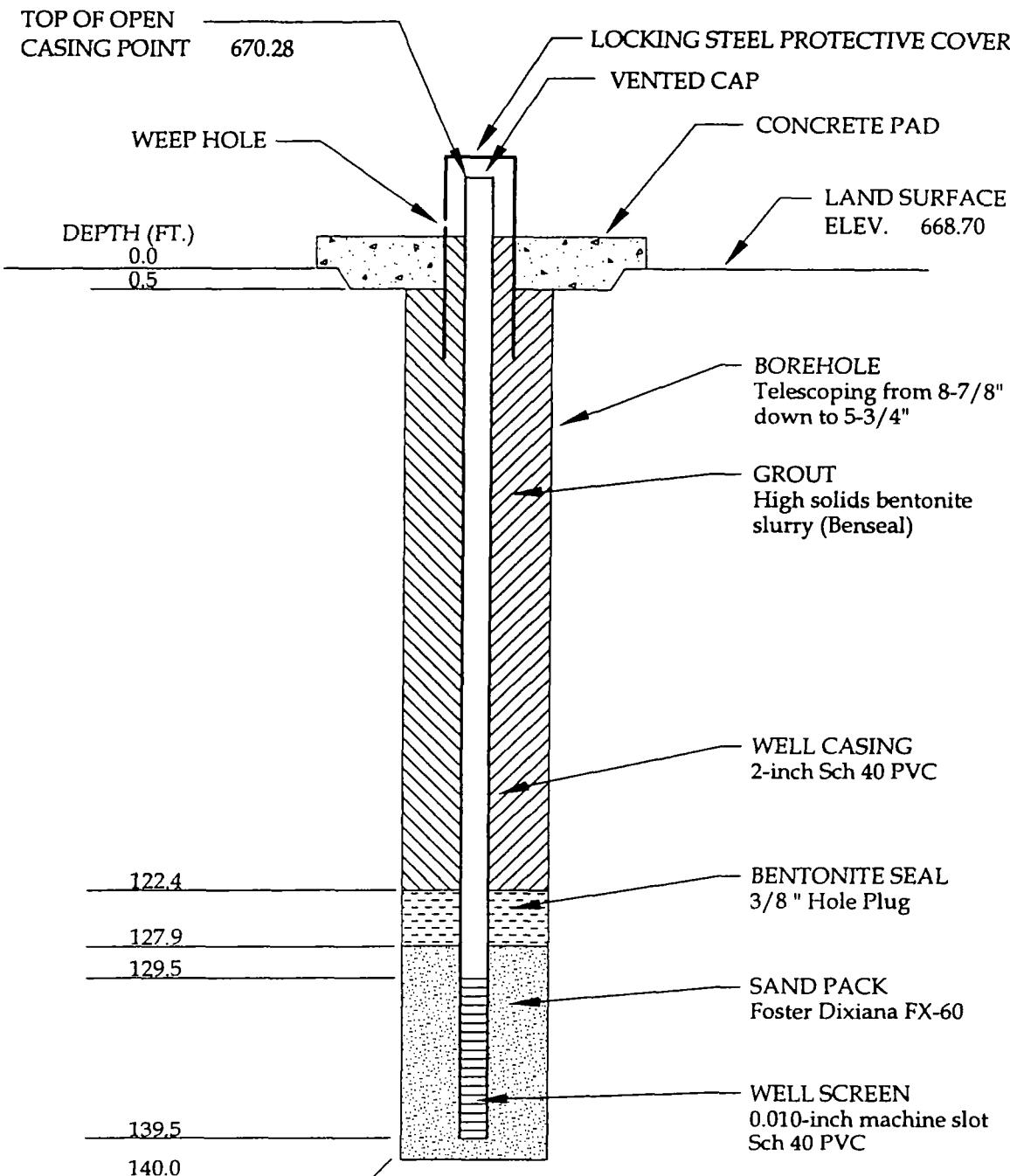
## SOIL BORING LOG

BORING NO. MW-3D

Client: Medley Farm Steering Committee		Drilling Start Date: 10-30-01	Drilling End Date: 10-31-01	Page of 3 3
Site: Medley Farm, Gaffney, South Carolina		Drilling Method: Air Rotary		Project Number: 71243.08
Geologist/Technician: Adam Motes/M Miesfeldt		Driller (name/company): Richard Simmons		Borehole Diameter (in.) 8-7/8 to 5-3/4
Boring Coordinates: N: 9404.50 E: 7429.70		Total Depth (ft.): 140.00	Measuring Point Elevation (ft.): 668.70	
Datum Description: Land Surface		Datum Elevation (ft.): 668.7	Checked by:	

Sample Interval	% Recovery	Sample Type	Blow Counts	Depth (feet)	Stratigraphy	LITHOLOGIC DESCRIPTION								
						105	110	115	120	125	130	135	140	145
						Gray silt with coarse material, dry.								
						Very hard, moisture noted on rods.								
						Dark gray rock chips, moist. Fractures at 126 feet, 127 feet, 128 feet, and at 130-131 feet.								
						End of boring.								

/WEL-DIA/MW00000C



### WELL CONSTRUCTION DIAGRAM

Not To Scale

PROJECT Medley Farm Steering Committee

PROJECT NO. 71243.08

WELL NO. MW-3D

DATE INSTALLED October 30-31, 2001

DRILLING CONTRACTOR Richard Simmons

RMT GEOLOGIST Adam Motes/M Miesfeldt

**RMT** INC.

# **Appendix C**

## **Summary of NPDES Results**

---



*Integrated  
Environmental  
Solutions*

100 Verdae Blvd. 29607-3825  
P.O. Box 16778 29606-6778  
Greenville, SC  
Telephone: 864-281-0030  
Fax: 864-281-0288

CERTIFIED MAIL  
RETURN RECEIPT REQUESTED

February 27, 2001

S. C. Department of Health and Environmental Control  
Attn.: BWPC/Enforcement Section  
2600 Bull Street  
Columbia, South Carolina 29201

Reference: NPDES Permit No. SC0046469  
Medley Farm NPL Site  
Cherokee County

Subject: Transmittal of NPDES Discharge Monitoring Report  
January 2001

Dear Sir or Madam:

Attached are two copies of the Discharge Monitoring Report for Pipe 001 1 and 001 2 at the Medley Farm NPL Site. There were no permit exceptions for the monitoring period.

The circuit board for the electronic flow meter malfunctioned in December 2000. RMT obtained permission from Mr. C. W. Swygert to report flows estimated from instantaneous flume readings during the period repairs are being made. Estimated flows are reported on this month's DMR form. The flow meter has been repaired and is now operating properly.

If there are any questions, please contact me at (864) 234-9363.

Sincerely,

RMT, Inc.

Steve W. Webb, Ph.D., P.E.  
Project Manager

Attachment

cc: Sheri Cresswell - US EPA Region IV  
C. W. Swygert - SC DHEC  
Medley Farm Site Steering Committee  
  
Neal Dunlap, File 938.89(c) - RMT

PERMITTEE NAME / ADDRESS (include  
Facility Name/Location if different)

NAME MEDLEY FARM NPL SITE  
ADDRESS P. O. BOX 16778  
GREENVILLE, SC 29606

NATIONAL DISCHARGE ELIMINATION SYSTEM (NPDES)  
DISCHARGE MONITORING REPORT (DMR)

(2-16)

(17-19)

SC0046469  
PERMIT NUMBER

001 1  
DISCHARGE NUMBER

Form Approved.

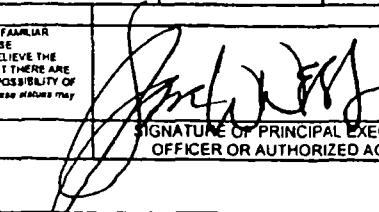
OMB No. 2040-0004

Approval expires 05-31-98

MONITORING PERIOD							
FROM	YEAR	MO	DAY	TO	YEAR	MO	DAY
	01	01	01		01	01	31
(20-21)	(22-23)	(24-25)		(26-27)	(28-29)	(30-31)	

21 A3 FINAL LIMITS  
DMR VALID: 10/01/1997 - 08/31/2002

NOTE: Read instructions before completing this form.

PARAMETER (32-37)	TEST TYPE	(3 Card only) QUANTITY OR LOADING (46-53) (54-61)			(3 Card only) QUALITY OR CONCENTRATION (38-45) (46-53) (54-61)				NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)	
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS				
00310 LAB ID:32010 BOD - 5 Day (20 Degrees C) MLOC=1	SAMPLE MEASUREMENT	*****	*****	*****	*****	<2	<2		MG/L	0	01/07 GR	
	PERMIT REQUIREMENT	*****	*****	*****	*****	10	20	DAILY MX			01/30 GR	
00400 LAB ID:32010 pH Standard Units MLOC=1	SAMPLE MEASUREMENT	*****	*****	*****	6.57	*****	7.07		SU	0	01/07 GR	
	PERMIT REQUIREMENT	*****	*****	*****	6.0	*****	8.5	MAXIMUM			01/07 GR	
32103 LAB ID:32010 1,2-Dichloroethane Whole Water MLOC=1	SAMPLE MEASUREMENT	*****	*****	*****	*****	<0.001	<0.001		MG/L	0	01/07 GR	
	PERMIT REQUIREMENT	*****	*****	*****	*****	REPORT MO AVG	0.028	DAILY MX			02/30 GR	
34501 LAB ID:32010 1,1-Dichloroethylene Whole Water MLOC=1	SAMPLE MEASUREMENT	*****	*****	*****	*****	<0.001	<0.001		MG/L	0	01/07 GR	
	PERMIT REQUIREMENT	*****	*****	*****	*****	REPORT MO AVG	0.039	DAILY MX			02/30 GR	
50050 LAB ID:ON-SITE Flow in Conduit MLOC=1	SAMPLE MEASUREMENT	0.035	0.039		MGD	*****	*****	*****	*****	0	XXXX ES	
	PERMIT REQUIREMENT	REPORT MO AVG	REPORT DAILY MAX	MGD		*****	*****	*****			99/99 RF	
78389 LAB ID:32010 Tetrachloroethene MLOC=1	SAMPLE MEASUREMENT	*****	*****	*****	*****	<0.001	<0.001		MG/L	0	01/07 GR	
	PERMIT REQUIREMENT	*****	*****	*****	*****	REPORT MO AVG	0.072	DAILY MX			02/30 GR	
78391 LAB ID:32010 Trichloroethene MLOC=1	SAMPLE MEASUREMENT	*****	*****	*****	*****	<0.001	<0.001		MG/L	0	01/07 GR	
	PERMIT REQUIREMENT	*****	*****	*****	*****	REPORT MO AVG	0.028	DAILY MX			02/30 GR	
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER		I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HERIN, AND BASED ON MY INQUIRIES, THOSE UNITS ARE IMMEDIATELY IN REGULAR COMPLIANCE WITH THE REQUIREMENTS. I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINDING IMPRISONMENT. SEE 18 USC §1001 AND 33 USC §1318. (Penalties under these statutes may include fines up to \$10,000 and/or maximum imprisonment of between 6 months and 5 years)						TELEPHONE	DATE			
Steve W. Webb RMT Project Manager								864 234-9363	01	02	27	
TYPED OR PRINTED		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT						AREA CODE	NUMBER	YEAR	MO	DAY

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

Estimated flows - see transmittal letter.

EPA Form 3320-1 (Rev 08-95) Previous editions may be used.

09/26/1997

(REPLACES EPA FORM T-40 WHICH MAY NOT BE USED)

**PERMITTEE NAME/ADDRESS (Include  
Facility Name/Location if different)**

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)  
DISCHARGE MONITORING REPORT (DMR)

NAME	MEDLEY FARM NPL SITE
ADDRESS	P. O. Box 16778 GREENVILLE, SC 29606
FACILITY	MEDLEY FARM NPL SITE
LOCATION	BURNT GIN ROAD

(2-10)	(11-15)
<b>SC00046469</b>	<b>001 2</b>
<b>PERMIT NUMBER</b>	<b>DISCHARGE NUMBER</b>

Form Approved.  
OMB No. 2040-0004  
Approval expires 05-31-98

21 A3 FINAL LIMITS  
DMR VALID: 10/01/1997 - 08/31/2002

**NOTE:** Read instructions before completing this form.

PARAMETER (32-37)		(3 Card only) QUANTITY OR LOADING (46-53) (54-61)			(3 Card only) QUALITY OR CONCENTRATION (38-45) (46-53) (54-61)				NO. EX. (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)	
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS				
TGP3B LAB ID:23031 7 Day Chronic Static Toxicity C. Dubia PF MLOC=1	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****	0	0=Pass 1=Fail	0	01/90	GR	
	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	DAILY MX			01/90	GR	
	SAMPLE MEASUREMENT											
	PERMIT REQUIREMENT											
	SAMPLE MEASUREMENT											
	PERMIT REQUIREMENT											
	SAMPLE MEASUREMENT											
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	PERMIT REQUIREMENT											
	SAMPLE MEASUREMENT											
	PERMIT REQUIREMENT											
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER		<i>[Signature]</i>				TELEPHONE		DATE				
Steve W. Webb RMT Project Manager						864 234-9363		01	02	27		
TYPED OR PRINTED						SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT		AREA CODE	NUMBER	YEAR	MO	DAY

**COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)**

### **Chronic toxicity testing IWC = 41.50% effluent**

**SIGNATURE OF PRINCIPAL EXECUTIVE  
OFFICER OR AUTHORIZED AGENT**

864	234-9363	01	02	27
AREA CODE	NUMBER	YEAR	MO	DAY

**DMR Attachment for Toxicity Test Results. Bureau of Water.**

MEDLEY FARMS NPL SITE Permit number SC0046469 Discharge number 0012  
 Final Limits 10/01/1997-08/31/2002 Parameter Code TGP3B MLOC=1 IWC=41.50% effluent.

Monitoring period	Year	Month	Day		Year	Month	Day
	From	01	01		To	01	03

Date	Lab ID	All tests				Chronic tests only		
		Group	# Adults	# Dead	Pass/Fail	Average	Variance	Pass/Fail
010108	32566	Control	20	1	PASS	26.3	100.74	PASS
		Test	20	0		29.3	67.70	

Date	Lab ID	All tests				Chronic tests only		
		Group	# Adults	# Dead	Pass/Fail	Average	Variance	Pass/Fail
		Control						
		Test						

Date	Lab ID	All tests				Chronic tests only		
		Group	# Adults	# Dead	Pass/Fail	Average	Variance	Pass/Fail
		Control						
		Test						

Date	Lab ID	All tests				Chronic tests only		
		Group	# Adults	# Dead	Pass/Fail	Average	Variance	Pass/Fail
		Control						
		Test						

Date	Lab ID	All tests				Chronic tests only		
		Group	# Adults	# Dead	Pass/Fail	Average	Variance	Pass/Fail
		Control						
		Test						

Date	Lab ID	All tests				Chronic tests only		
		Group	# Adults	# Dead	Pass/Fail	Average	Variance	Pass/Fail
		Control						
		Test						

Signature of Principal Executive Officer or Authorized Agent

Name/Title of Principal Executive Officer (typed or printed)



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P.O. Box 16778 29606-6778  
Greenville, SC  
Telephone: 864-281-0030  
Fax: 864-281-0288

CERTIFIED MAIL  
RETURN RECEIPT REQUESTED

March 27, 2001

S. C. Department of Health and Environmental Control  
Attn.: BWPC/Enforcement Section  
2600 Bull Street  
Columbia, South Carolina 29201

Reference: NPDES Permit No. SC0046469  
Medley Farm NPL Site  
Cherokee County

Subject: Transmittal of NPDES Discharge Monitoring Report  
February 2001

Dear Sir or Madam:

Attached are two copies of the Discharge Monitoring Report for Pipe 001 1 at the Medley Farm NPL Site. There were no permit exceptions for the monitoring period.

If there are any questions, please contact me at (864) 234-9363.

Sincerely,

RMT, Inc.

Steve W. Webb, Ph.D., P.E.  
Project Manager

Attachment

cc: Sheri Cresswell - US EPA Region IV  
C. W. Swygert - SC DHEC  
Medley Farm Site Steering Committee  
  
Neal Dunlap, File 938.89(c) - RMT

PERMITTEE NAME: MEDLEY FARM NPL SITE  
Facility Name/Location... different)

NATIONAL  
ANT DISCHARGE ELIMINATION SYSTEM (NPDES)  
DISCHARGE MONITORING REPORT (DMR)

(2-16)

(17-19)

NAME: MEDLEY FARM NPL SITE  
ADDRESS: P. O. BOX 16778  
GREENVILLE, SC 29606

FACILITY: MEDLEY FARM NPL SITE  
LOCATION: BURNT GIN ROAD

SC0046469  
PERMIT NUMBER

001 1  
DISCHARGE NUMBER

FROM	MONITORING PERIOD					
	YEAR	MO	DAY	TO	YEAR	MO
	01	02	01	01	02	28
(20-21)	(22-23)	(24-25)	(26-27)	(28-29)	(30-31)	

Form Approved.  
OMB No. 2040-0004  
Approval expires 05-31-98  
21 A3 FINAL LIMITS  
DMR VALID: 10/01/1997 - 08/31/2002

NOTE: Read instructions before completing this form.

PARAMETER (32-37)		(3 Card only) (46-53)	QUANTITY OR LOADING (54-61)	(3 Card only) (38-45)	QUALITY OR CONCENTRATION (46-53)	(54-61)	NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)	
00310 LAB ID:32010 BOD - 5 Day (20 Degrees C) MLOC=1	SAMPLE MEASUREMENT	*****	*****	*****	*****	2.2	2.8	MG/L	0 01/07 GR	
	PERMIT REQUIREMENT	*****	*****	*****	*****	10 MO AVG	20 DAILY MX		01/30 GR	
00400 LAB ID:32010 pH Standard Units MLOC=1	SAMPLE MEASUREMENT	*****	*****	*****	*****	6.58	*****	SU	0 01/07 GR	
	PERMIT REQUIREMENT	*****	*****	*****	*****	6.0 MINIMUM	*****		01/07 GR	
32103 LAB ID:32010 1,2-Dichloroethane Whole Water MLOC=1	SAMPLE MEASUREMENT	*****	*****	*****	*****	<0.001	<0.001	MG/L	0 01/07 GR	
	PERMIT REQUIREMENT	*****	*****	*****	*****	REPORT MO AVG	0.028 DAILY MX		02/30 GR	
34501 LAB ID:32010 1,1-Dichloroethylene Whole Water MLOC=1	SAMPLE MEASUREMENT	*****	*****	*****	*****	<0.001	<0.001	MG/L	0 01/07 GR	
	PERMIT REQUIREMENT	*****	*****	*****	*****	REPORT MO AVG	0.039 DAILY MX		02/30 GR	
50050 LAB ID:ON-SITE Flow in Conduit MLOC=1	SAMPLE MEASUREMENT	0.0384	0.0419	MGD	*****	*****	*****	*****	0 99/99 RF	
	PERMIT REQUIREMENT	REPORT MO AVG	REPORT DAILY MAX		*****	*****	*****		99/99 RF	
78389 LAB ID:32010 Tetrachloroethene MLOC=1	SAMPLE MEASUREMENT	*****	*****	*****	*****	<0.001	<0.001	MG/L	0 01/07 GR	
	PERMIT REQUIREMENT	*****	*****	*****	*****	REPORT MO AVG	0.072 DAILY MX		02/30 GR	
78391 LAB ID:32010 Trichloroethene MLOC=1	SAMPLE MEASUREMENT	*****	*****	*****	*****	<0.001	<0.001	MG/L	0 01/07 GR	
	PERMIT REQUIREMENT	*****	*****	*****	*****	REPORT MO AVG	0.028 DAILY MX		02/30 GR	
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER		I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN, AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS I AM LEGALLY RESPONSIBLE FOR OBTAINING THE INFORMATION, I BELIEVE THE SUBMITTED INFORMATION IS ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT, SEE 18 USC §1011 AND 33 USC § 1319. (Penalties under these statutes may include fines up to \$10,000 and/or imprisonment of between 6 months and 3 years.)				TELEPHONE		DATE		
Steve W. Webb RMT Project Manager						864 234-9363	01 03 27			
TYPED OR PRINTED					SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA CODE	NUMBER	YEAR	MO	DAY
COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)										



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P.O. Box 16778 29606-6778  
Greenville, SC  
Telephone: 864-281-0030  
Fax: 864-281-0288

CERTIFIED MAIL  
RETURN RECEIPT REQUESTED

April 23, 2001

S. C. Department of Health and Environmental Control  
Attn.: BWPC/Enforcement Section  
2600 Bull Street  
Columbia, South Carolina 29201

Reference: NPDES Permit No. SC0046469  
Medley Farm NPL Site  
Cherokee County

Subject: Transmittal of NPDES Discharge Monitoring Report  
March 2001

Dear Sir or Madam:

Attached are two copies of the Discharge Monitoring Report for Pipe 001 1 at the Medley Farm NPL Site. There were no permit exceptions for the monitoring period.

If there are any questions, please contact me at (864) 234-9363.

Sincerely,

RMT, Inc.

Steve W. Webb, Ph.D., P.E.  
Project Manager

Attachment

cc: Sheri Cresswell - US EPA Region IV  
C. W. Swygert - SC DHEC  
Medley Farm Site Steering Committee  
Jeff Friend, Neal Dunlap, File 938.89(c) - RMT

PERMITTEE NAME: MEDLEY FARM NPL SITE  
ESS (Include  
Facility Name/Location, if different)

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)  
DISCHARGE MONITORING REPORT (DMR)

(2-16)

(17-19)

SC0046469

001 1

PERMIT NUMBER

DISCHARGE NUMBER

NAME: MEDLEY FARM NPL SITE  
ADDRESS: P. O. BOX 16778  
GREENVILLE, SC 29606

FACILITY LOCATION: MEDLEY FARM NPL SITE  
BURNT GIN ROAD

FROM

## MONITORING PERIOD

YEAR	MO	DAY	TO	YEAR	MO	DAY
01	03	01		01	03	31

(20-21)

(22-23)

(24-25)

(26-27)

(28-29)

(30-31)

Form Approved.  
OMB No. 2040-0004  
Approval expires 05-31-98

21

A3

## FINAL LIMITS

DMR VALID: 10/01/1997 - 08/31/2002

NOTE: Read instructions before completing this form.

PARAMETER (32-37)	SAMPLE MEASUREMENT	(3 Card only) (46-53) QUANTITY OR LOADING (54-61)			(3 Card only) (38-45) QUALITY OR CONCENTRATION (46-53) (54-61)			NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM			
00310 LAB ID:32010 BOD – 5 Day (20 Degrees C) MLOC=1	SAMPLE MEASUREMENT	*****	*****	*****	*****	<2	<2	MG/L	01/07	GR
	PERMIT REQUIREMENT	*****	*****	*****	*****	10 MO AVG	20 DAILY MX			
00400 LAB ID:32010 pH Standard Units MLOC=1	SAMPLE MEASUREMENT	*****	*****	*****	6.83	*****	7.23	SU	01/07	GR
	PERMIT REQUIREMENT	*****	*****	*****	6.0 MINIMUM	*****	8.5 MAXIMUM			
32103 LAB ID:32010 1,2-Dichloroethane Whole Water MLOC=1	SAMPLE MEASUREMENT	*****	*****	*****	*****	<0.001	<0.001	MG/L	01/07	GR
	PERMIT REQUIREMENT	*****	*****	*****	*****	REPORT MO AVG	0.028 DAILY MX			
34501 LAB ID:32010 1,1-Dichloroethylene Whole Water MLOC=1	SAMPLE MEASUREMENT	*****	*****	*****	*****	<0.001	<0.001	MG/L	01/07	GR
	PERMIT REQUIREMENT	*****	*****	*****	*****	REPORT MO AVG	0.039 DAILY MX			
50050 LAB ID:ON-SITE Flow in Conduit MLOC=1	SAMPLE MEASUREMENT	0.030	0.046	MGD	*****	*****	*****	*****	99/99	RF
	PERMIT REQUIREMENT	REPORT MO AVG	REPORT DAILY MAX		*****	*****	*****			
78389 LAB ID:32010 Tetrachloroethene MLOC=1	SAMPLE MEASUREMENT	*****	*****	*****	*****	<0.001	<0.001	MG/L	01/07	GR
	PERMIT REQUIREMENT	*****	*****	*****	*****	REPORT MO AVG	0.072 DAILY MX			
78391 LAB ID:32010 Trichloroethene MLOC=1	SAMPLE MEASUREMENT	*****	*****	*****	*****	<0.001	<0.001	MG/L	01/07	GR
	PERMIT REQUIREMENT	*****	*****	*****	*****	REPORT MO AVG	0.028 DAILY MX			

## NAME/TITLE PRINCIPAL EXECUTIVE OFFICER

Steve W. Webb  
RMT Project Manager

TYPED OR PRINTED

I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN, AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION, I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT. SEE 18 USC §1061 AND 33 USC § 1316. (Penalties under these statutes may include fines up to \$10,000 and/or maximum imprisonment of between 4 months and 5 years.)

SIGNATURE OF PRINCIPAL EXECUTIVE  
OFFICER OR AUTHORIZED AGENT

864 234-9363

01 04 23

AREA  
CODE

NUMBER

YEAR

MO

DAY

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

**PERMITTEE NAME, ADDRESS (Include Facility Name/Location if different)**

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)  
DISCHARGE MONITORING REPORT (DMR)

NAME MEDLEY FARM NPL SITE  
ADDRESS P. O. Box 16778  
GREENVILLE SC 29606

FACILITY MEDLEY FARM NPL SITE  
LOCATION BURNT GIN ROAD

FROM	MONITORING PERIOD						
	YEAR	MO	DAY	TO	YEAR	MO	DAY
	01	XX	XX		01	XX	XX
	(20-21)	(22-23)	(24-25)		(26-27)	(28-29)	(30-31)

Form Approved.  
OMB No. 2040-0004  
Approval expires 05-31-98

21 A3 FINAL LIMITS  
DMR VALID: 10/01/1997 - 08/31/2002

**NOTE: Read instructions before completing this form.**

PARAMETER (32-37)		(3 Card only) QUANTITY OR LOADING (46-53) (54-61)			(3 Card only) QUALITY OR CONCENTRATION (38-45) (46-53) (54-61)				NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)	
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS				
TGP3B LAB ID:23031 7 Day Chronic Static Toxicity C. Dubia PF MLOC=1	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****	X	0=Pass 1=Fail	X	01/90	GR	
	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	0 DAILY MX			01/90	GR	
	SAMPLE MEASUREMENT											
	PERMIT REQUIREMENT											
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PERMIT REQUIREMENT												
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER						TELEPHONE		DATE				
Steve W. Webb RMT Project Manager		I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN, AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION, I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT. SEE 18 USC §1001 AND 23 USC § 1319. (Penalties under these statutes may include fines up to \$10,000 and/or imprisonment of between 6 months and 5 years.)						864	234-9363	XX	XX	XX
TYPED OR PRINTED						SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT		AREA CODE	NUMBER	YEAR	MO	DAY

**COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)**

**Chronic toxicity testing IWC = 41.50% effluent**

EPA Form 3320-1 (Rev. 08-95) Previous editions may be used

09/26/1997

(REPLACES EPA FORM T-40 WHICH MAY NOT BE USED)



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P.O. Box 16778 29606-6778  
Greenville, SC  
Telephone: 864-281-0030  
Fax: 864-281-0288

CERTIFIED MAIL  
RETURN RECEIPT REQUESTED

May 21, 2001

S. C. Department of Health and Environmental Control  
Attn.: BWPC/Enforcement Section  
2600 Bull Street  
Columbia, South Carolina 29201

Reference: NPDES Permit No. SC0046469  
Medley Farm NPL Site  
Cherokee County

Subject: Transmittal of NPDES Discharge Monitoring Report  
April 2001

Dear Sir or Madam:

Attached are two copies of the Discharge Monitoring Report for Pipe 001 1 and Pipe 001 2 at the Medley Farm NPL Site. On April 1 and 2, the flow recorded failed to properly record the flow data. This did not affect the reporting of the monthly average or daily maximum flows for April. The flow recorded has operated properly since April 3. There were no permit exceptions for the monitoring period.

If there are any questions, please contact me at (864) 234-9363.

Sincerely,

RMT, Inc.

Steve W. Webb, Ph.D., P.E.  
Project Manager

Attachment

cc: Sheri Cresswell - US EPA Region IV  
C. W. Swygert - SC DHEC  
Medley Farm Site Steering Committee  
Jeff Friend, Neal Dunlap, File 938.89(c) - RMT

PERMITTEE NAME: ESS (Include  
Facility Name/Location if different)

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)  
DISCHARGE MONITORING REPORT (DMR)

(2-16)

(17-19)

NAME MEDLEY FARM NPL SITE  
ADDRESS P. O. BOX 16778  
GREENVILLE, SC 29606

SC0046469  
PERMIT NUMBER

001 1  
DISCHARGE NUMBER

Form Approved.  
OMB No. 2040-0004  
Approval expires 05-31-98

FACILITY MEDLEY FARM NPL SITE  
LOCATION BURNT GIN ROAD

FROM

MONITORING PERIOD						
YEAR	MO	DAY	TO	YEAR	MO	DAY
01	04	01	01	01	04	30
(20-21)	(22-23)	(24-25)	(26-27)	(28-29)	(30-31)	

21 A3 FINAL LIMITS  
DMR VALID: 10/01/1997 - 08/31/2002

NOTE: Read Instructions before completing this form.

PARAMETER (32-37)		(3 Card only) (46-53)			QUANTITY OR LOADING (54-61)			(3 Card only) (38-45)			QUALITY OR CONCENTRATION (46-53) (54-61)			NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)		
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM			
00310 LAB ID:32010 BOD - 5 Day (20 Degrees C) MLOC=1	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****	<2	*****	*****	*****	*****	*****	*****	*****	*****	0	01/07	GR
	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	20	*****	*****	*****	*****	*****	*****	*****	*****	0	01/07	GR
00400 LAB ID:32010 pH Standard Units MLOC=1	SAMPLE MEASUREMENT	*****	*****	*****	*****	6.74	*****	*****	*****	7.38	*****	*****	*****	*****	*****	0	01/07	GR
	PERMIT REQUIREMENT	*****	*****	*****	*****	6.0	*****	*****	*****	6.5	*****	*****	*****	*****	*****	0	01/07	GR
32103 LAB ID:32010 1,2-Dichloroethane Whole Water MLOC=1	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****	<0.001	*****	*****	*****	*****	*****	*****	*****	*****	0	01/07	GR
	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	REPORT MO/AVG	*****	*****	0.028	*****	*****	*****	*****	*****	0	01/07	GR
34501 LAB ID:32010 1,1-Dichloroethylene Whole Water MLOC=1	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****	<0.001	*****	*****	<0.001	*****	*****	*****	*****	*****	0	01/07	GR
	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	REPORT MO/AVG	*****	*****	0.039	*****	*****	*****	*****	*****	0	01/07	GR
50050 LAB ID:ON-SITE Flow in Conduit MLOC=1	SAMPLE MEASUREMENT	0.0296	0.0568	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	0	99/99	RF
	PERMIT REQUIREMENT	REPORT MO/AVG	REPORT DAILY MAX	MGD	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	0	99/99	RF
78389 LAB ID:32010 Tetrachloroethene MLOC=1	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****	<0.001	*****	*****	<0.001	*****	*****	*****	*****	*****	0	01/07	GR
	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	REPORT MO/AVG	*****	*****	0.028	*****	*****	*****	*****	*****	0	01/07	GR
78391 LAB ID:32010 Trichloroethene MLOC=1	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****	<0.001	*****	*****	<0.001	*****	*****	*****	*****	*****	0	01/07	GR
	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	REPORT MO/AVG	*****	*****	0.028	*****	*****	*****	*****	*****	0	01/07	GR

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER

Steve W. Webb  
RMT Project Manager

TYPED OR PRINTED

I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR  
WITH THE INFORMATION SUBMITTED HEREIN, AND BASED ON MY INQUIRY OF THOSE  
INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION, I BELIEVE THE  
SUBMITTED INFORMATION IS TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE  
SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF  
FIND AND IMPRISONMENT, SEE 18 USC §1501 AND 33 USC § 1319. (Penalties under these statutes may  
include fines up to \$10,000 and/or maximum imprisonment of between 6 months and 5 years.)

SIGNATURE OF PRINCIPAL EXECUTIVE  
OFFICER OR AUTHORIZED AGENT

864 234-9363

01 05 21

AREA  
CODE

NUMBER

YEAR

MO

DAY

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

**PERMITTEE NAME/ADDRESS (Include Facility Name/Location if different)**

**NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)  
DISCHARGE MONITORING REPORT (DMR)**

NAME MEDLEY FARM NPL SITE  
ADDRESS P. O. Box 16778  
GREENVILLE, SC 29606

FACILITY MEDLEY FARM NPL SITE  
LOCATION BURNT GIN ROAD

SC00046469	001 2
PERMIT NUMBER	DISCHARGE NUMBER

Form Approved.  
OMB No. 2040-0004  
Approval expires 05-31-98

21 A3 FINAL LIMITS  
DMR VALID: 10/01/1997 - 08/31/2002

**NOTE: Read Instructions before completing this form.**

**NAME/TITLE PRINCIPAL EXECUTIVE OFFICER**

**TELEPHONE**      **DATE**

**Steve W. Webb  
RMT Project Manager**

I CERTIFY UNDER PENALTY OF PERJURY THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HERETO, AND BASED ON MY INJURIES, I HAVE INDIVIDUALLY AND SEPARATELY READ, UNDERSTOOD, AND RECEIVED THE INFORMATION, BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE, AND CORRECT. I AGREE AND UNDERSTAND THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FIND AND IMPRISONMENT, SEE 18 USC § 1001 AND 33 USC § 1318. (Penalties under these statutes include fines up to \$10,000 and/or imprisonment of between 6 months and 5 years.)

864 234-9363 01 05 21

AREA CODE	NUMBER	YEAR	MO	DAY
--------------	--------	------	----	-----

**COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)**

**Chronic toxicity testing IWC = 41.50% effluent**

**SIGNATURE OF PRINCIPAL EXECUTIVE  
OFFICER OR AUTHORIZED AGENT**

AREA CODE	NUMBER	YEAR	MO	DAY
--------------	--------	------	----	-----

**DMR Attachment for Toxicity Test Results. Bureau of Water.**

MEDLEY FARMS NPL SITE Permit number SC0046469 Discharge number 0012  
 Final Limits 10/01/1997-08/31/2002 Parameter Code TGP3B MLOC=1 IWC=41.50% effluent.

Monitoring period	Year	Month	Day		Year	Month	Day
	From	01	04	01	To	01	06

Date	Lab ID	All tests				Chronic tests only		
		Group	# Adults	# Dead	Pass/Fail	Average	Variance	Pass/Fail
01/05/21	32566	Control	20	0	PASS	26.2	66.03	PASS
		Test	20	0		22.6	141.42	

Date	Lab ID	All tests				Chronic tests only		
		Group	# Adults	# Dead	Pass/Fail	Average	Variance	Pass/Fail
		Control						
		Test						

Date	Lab ID	All tests				Chronic tests only		
		Group	# Adults	# Dead	Pass/Fail	Average	Variance	Pass/Fail
		Control						
		Test						

Date	Lab ID	All tests				Chronic tests only		
		Group	# Adults	# Dead	Pass/Fail	Average	Variance	Pass/Fail
		Control						
		Test						

Date	Lab ID	All tests				Chronic tests only		
		Group	# Adults	# Dead	Pass/Fail	Average	Variance	Pass/Fail
		Control						
		Test						

Date	Lab ID	All tests				Chronic tests only		
		Group	# Adults	# Dead	Pass/Fail	Average	Variance	Pass/Fail
		Control						
		Test						

Signature of Principal Executive Officer or Authorized Agent John H. Kelly

Name/Title of Principal Executive Officer (typed or printed) RMT Project Mgr.



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P.O. Box 16778 29606-6778  
Greenville, SC  
Telephone: 864-281-0030  
Fax: 864-281-0288

CERTIFIED MAIL  
RETURN RECEIPT REQUESTED

June 28, 2001

S. C. Department of Health and Environmental Control  
Attn.: BWPC/Enforcement Section  
2600 Bull Street  
Columbia, South Carolina 29201

Reference: NPDES Permit No. SC0046469  
Medley Farm NPL Site  
Cherokee County

Subject: Transmittal of NPDES Discharge Monitoring Report  
May 2001

Dear Sir or Madam:

Attached are two copies of the Discharge Monitoring Report for Pipe 001 at the Medley Farm NPL Site. On May 28, Shealy Environmental Services collected an effluent sample without realizing that a power failure had shut down the system. Although we do not believe that this sample was representative of the quality of the effluent that is discharged from the site, we have included this data on the DMR form as required by Part I Section C.6 of the NPDES permit. We are presently reviewing the treatment system controls to ensure that no untreated water can be discharged in the event of a power failure.

If there are any questions, please contact me at (864) 234-9363.

Sincerely,

RMT, Inc.

Steve W. Webb, Ph.D., P.E.  
Project Manager

Attachment

cc: Sheri Cresswell - US EPA Region IV  
C. W. Swygert - SC DHEC  
Medley Farm Site Steering Committee  
Jeff Friend, Neal Dunlap, File 938.89(c) - RMT

PERMITTEE NAME  
Facility Name/Location  
(If different)

NATIONAL WASTEWATER DISCHARGE ELIMINATION SYSTEM (NPDES)  
DISCHARGE MONITORING REPORT (DMR)

(2-16)

(17-19)

NAME MEDLEY FARM NPL SITE  
ADDRESS P. O. BOX 16778  
GREENVILLE, SC 29606

FACILITY LOCATION MEDLEY FARM NPL SITE  
BURNt GIN ROAD

SC0046469  
PERMIT NUMBER

001 1  
DISCHARGE NUMBER

Form Approved.  
OMB No. 2040-0004  
Approval expires 05-31-98

21 A3 FINAL LIMITS  
DMR VALID: 10/01/1997 - 08/31/2002

NOTE: Read Instructions before completing this form.

PARAMETER (32-37)		MONITORING PERIOD						NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-66)	SAMPLE TYPE (69-70)					
		FROM			YEAR	MO	DAY				TO	YEAR	MO	DAY	
		01	05	01	01	05	31				(20-21)	(22-23)	(24-25)	(26-27)	(28-29)
00310 LAB ID:32010 BOD – 5 Day (20 Degrees C) MLOC=1	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****	<2	<2					0	03/30	GR
	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	10	20	MO AVG	DAILY MX				01/30	GR
00400 LAB ID:32010 pH Standard Units MLOC=1	SAMPLE MEASUREMENT	*****	*****	*****	*****	6.71	*****	*****	6.89				0	01/07	GR
	PERMIT REQUIREMENT	*****	*****	*****	*****	6.0	*****	*****	8.5	MINIMUM	MAXIMUM			01/07	GR
32103 LAB ID:32010 1,2-Dichloroethane Whole Water MLOC=1	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****	0.0014	0.0025					0	04/30	GR
	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	REPORT	0.028	MO AVG	DAILY MX				02/30	GR
34501 LAB ID:32010 1,1-Dichloroethylene Whole Water MLOC=1	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****	0.0013	0.002					0	04/30	GR
	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	REPORT	0.039	MO AVG	DAILY MX				02/30	GR
50050 LAB ID:ON-SITE Flow in Conduit  MLOC=1	SAMPLE MEASUREMENT	0.0292	0.0483				*****	*****	*****				0	99/99	RF
	PERMIT REQUIREMENT	REPORT	REPORT	MGD	MO AVG	DAILY MAX	*****	*****	*****					99/99	RF
78389 LAB ID:32010 Tetrachloroethene  MLOC=1	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****	0.0035	0.011					0	04/30	GR
	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	REPORT	0.072	MO AVG	DAILY MX				02/30	GR
78391 LAB ID:32010 Trichloroethene  MLOC=1	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****	0.0093	0.034					1	04/30	GR
	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	REPORT	0.028	MO AVG	DAILY MX				02/30	GR
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER								TELEPHONE		DATE					
Steve W. Webb RMT Project Manager		I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN, AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION, I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT, SEE 16 USC § 1201 AND 33 USC § 1319. (Penalties under these statutes may include fines up to \$10,000 per day or maximum imprisonment of between 6 months and 5 years.)  <i>Jeffrey A. Trinard for SWW</i>						864 234-9363		01	06	28			
TYPED OR PRINTED								SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT		AREA CODE	NUMBER	YEAR	MO	DAY	

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

See attached transmittal letter.



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Greenville, SC  
Telephone: 864-281-0030  
Fax: 864-281-0288

CERTIFIED MAIL  
RETURN RECEIPT REQUESTED

July 23, 2001

S. C. Department of Health and Environmental Control  
Attn.: BWPC/Enforcement Section  
2600 Bull Street  
Columbia, South Carolina 29201

Reference: NPDES Permit No. SC0046469  
Medley Farm NPL Site  
Cherokee County

Subject: Transmittal of NPDES Discharge Monitoring Report  
June 2001

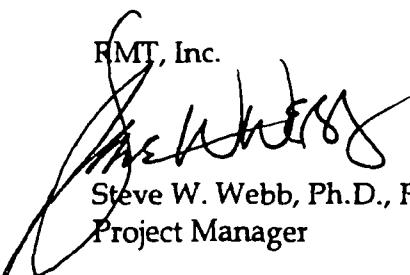
Dear Sir or Madam:

Attached are two copies of the Discharge Monitoring Report for Pipe 001 1 at the Medley Farm NPL Site. There were no permit exceptions for the monitoring period. As discussed in our last DMR transmittal, we were modifying the control system to ensure that no untreated water can be discharged in the event of a power failure. These modifications are now complete.

If there are any questions, please contact me at (864) 234-9363.

Sincerely,

RMT, Inc.



Steve W. Webb, Ph.D., P.E.  
Project Manager

Attachment

cc: Sheri Cresswell - US EPA Region IV  
C. W. Swygert - SC DHEC  
Medley Farm Site Steering Committee  
Jeff Friend, Neal Dunlap, File 938.89(c) - RMT

PERMITTEE NAME  
Facility Name/Location  
ESS (Include  
different)

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)  
DISCHARGE MONITORING REPORT (DMR)

(2-16)

(17-19)

NAME MEDLEY FARM NPL SITE  
ADDRESS P. O. BOX 16778  
GREENVILLE, SC 29606

SC0046469	001 1
PERMIT NUMBER	DISCHARGE NUMBER

Form Approved.  
OMB No. 2040-0004  
Approval expires 05-31-98

FACILITY LOCATION MEDLEY FARM NPL SITE  
BURNT GIN ROAD

FROM	MONITORING PERIOD						
	YEAR	MO	DAY	TO	YEAR	MO	DAY
	01	06	01		01	06	30
	(20-21)	(22-23)	(24-25)	(26-27)	(28-29)	(30-31)	

21 A3 FINAL LIMITS  
DMR VALID: 10/01/1997 - 08/31/2002

NOTE: Read instructions before completing this form.

PARAMETER (32-37)		(3 Card only) QUANTITY OR LOADING (46-53) (54-61)			(3 Card only) QUALITY OR CONCENTRATION (38-45) (46-53) (54-61)			NO. EX (82-83)	FREQUENCY OF ANALYSIS (84-88)	SAMPLE TYPE (69-70)
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM			
00310 LAB ID:32010 BOD - 5 Day (20 Degrees C) MLOC=1	SAMPLE MEASUREMENT	*****	*****	*****	*****	2.3	3.5	MG/L	0 01/07	GR
	PERMIT REQUIREMENT	*****	*****	*****	*****	10 MO AVG	20 DAILY MX		0 130	GR
00400 LAB ID:32010 pH Standard Units MLOC=1	SAMPLE MEASUREMENT	*****	*****	*****	6.73	*****	8.09	SU	0 01/07	GR
	PERMIT REQUIREMENT	*****	*****	*****	6.0 MINIMUM	*****	8.5 MAXIMUM		0 1/07	GR
32103 LAB ID:32010 1,2-Dichloroethane Whole Water MLOC=1	SAMPLE MEASUREMENT	*****	*****	*****	*****	<0.001	<0.001	MG/L	0 01/07	GR
	PERMIT REQUIREMENT	*****	*****	*****	*****	REPORT MO AVG	0.028 DAILY MX		0 1230	GR
34501 LAB ID:32010 1,1-Dichloroethylene Whole Water MLOC=1	SAMPLE MEASUREMENT	*****	*****	*****	*****	<0.001	<0.001	MG/L	0 01/07	GR
	PERMIT REQUIREMENT	*****	*****	*****	*****	REPORT MO AVG	0.039 DAILY MX		0 0230	GR
50050 LAB ID:ON-SITE Flow in Conduit MLOC=1	SAMPLE MEASUREMENT	0.0211	0.0457	MGD	*****	*****	*****	*****	0 99/99	RF
	PERMIT REQUIREMENT	REPORT MO AVG	REPORT DAILY MAX		*****	*****	*****		99/99	RF
78389 LAB ID:32010 Tetrachloroethene MLOC=1	SAMPLE MEASUREMENT	*****	*****	*****	*****	<0.001	<0.001	MG/L	0 01/07	GR
	PERMIT REQUIREMENT	*****	*****	*****	*****	REPORT MO AVG	0.072 DAILY MX		0 0230	GR
78391 LAB ID:32010 Trichloroethene MLOC=1	SAMPLE MEASUREMENT	*****	*****	*****	*****	0.0012	0.0019	MG/L	0 01/07	GR
	PERMIT REQUIREMENT	*****	*****	*****	*****	REPORT MO AVG	0.028 DAILY MX		0 0230	GR

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER

Steve W. Webb  
RMT Project Manager

TYPED OR PRINTED

I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN, AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION, I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT. SEE 18 USC §1011 AND 33 USC §1319. (Penalties under these statutes may include fines up to \$10,000 and/or maximum imprisonment of between 6 months and 5 years.)

SIGNATURE OF PRINCIPAL EXECUTIVE  
OFFICER OR AUTHORIZED AGENT

AREA  
CODE

NUMBER

YEAR    MO    DAY

864 234-9363 01 07 23

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)



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P.O. Box 16778 29606-6778  
Greenville, SC  
Telephone: 864-281-0030  
Fax: 864-281-0288

**CERTIFIED MAIL  
RETURN RECEIPT REQUESTED**

August 27, 2001

S. C. Department of Health and Environmental Control  
Attn.: BWPC/Enforcement Section  
2600 Bull Street  
Columbia, South Carolina 29201

Reference: NPDES Permit No. SC0046469  
Medley Farm NPL Site  
Cherokee County

Subject: Transmittal of NPDES Discharge Monitoring Report  
July 2001

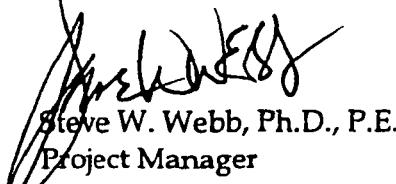
Dear Sir or Madam:

Attached are two copies of the Discharge Monitoring Report for Pipe 001 1 at the Medley Farm NPL Site. The treatment system was off-line from the beginning of the monitoring period and was restarted on July 23, 2001, for a recovery well recharge test. Flow data from the nine days that the treatment system discharged are reported on the DMR. There were no permit exceptions for the monitoring period.

If there are any questions, please contact me at (864) 234-9363.

Sincerely,

RMT, Inc.



Steve W. Webb, Ph.D., P.E.  
Project Manager

Attachment

cc: Sheri Cresswell - US EPA Region IV  
C. W. Swygert - SC DHEC  
Medley Farm Site Steering Committee  
Jeff Friend, Neal Dunlap, File 938.89(c) - RMT

PERMITTEE NAME  
Facility Name/LocationADDRESS (Include  
different)NAME MEDLEY FARM NPL SITE  
ADDRESS P. O. BOX 16778  
GREENVILLE, SC 29606FACILITY LOCATION MEDLEY FARM NPL SITE  
BURNT GIN ROADNATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)  
DISCHARGE MONITORING REPORT (DMR)

(2-16)

(17-19)

SC0046469

001 1

PERMIT NUMBER

DISCHARGE NUMBER

Form Approved.

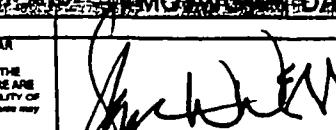
OMB No. 2040-0004

Approval expires 05-31-98

21 A3 FINAL LIMITS  
DMR VALID: 10/01/1997 - 08/31/2002

FROM	MONITORING PERIOD					
	YEAR	MO	DAY	TO	YEAR	MO
	01	07	01	01	07	31
(20-21)	(22-23)	(24-25)	(26-27)	(28-29)	(30-31)	

NOTE: Read instructions before completing this form.

PARAMETER (32-37)		(3 Card only) (46-53)	QUANTITY OR LOADING (54-61)	(3 Card only) (38-45)	QUALITY OR CONCENTRATION (46-53)	(54-61)	NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)	
00310 LAB ID:32010 BOD – 5 Day (20 Degrees C) MLOC=1	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****	0	01/07	GR	
	PERMIT REQUIREMENT	*****	*****	*****	<2	<2				
00400 LAB ID:32010 pH Standard Units MLOC=1	SAMPLE MEASUREMENT	*****	*****	*****	6.84	*****	0	01/07	GR	
	PERMIT REQUIREMENT	*****	*****	*****	6.0	*****				
32103 LAB ID:32010 1,2-Dichloroethane Whole Water MLOC=1	SAMPLE MEASUREMENT	*****	*****	*****	0.007	0.008	0	01/07	GR	
	PERMIT REQUIREMENT	*****	*****	*****	REPORT MO/AVG	REPORT DAILY MAX				
34501 LAB ID:32010 1,1-Dichloroethylene Whole Water MLOC=1	SAMPLE MEASUREMENT	*****	*****	*****	.001	.001	0	01/07	GR	
	PERMIT REQUIREMENT	*****	*****	*****	REPORT MO/AVG	REPORT DAILY MAX				
50050 LAB ID:ON-SITE Flow in Conduit MLOC=1	SAMPLE MEASUREMENT	0.0502	0.0648	MGD	*****	*****	0	99/99	RF	
	PERMIT REQUIREMENT	REPORT MO/AVG	REPORT DAILY MAX	MGD	*****	*****				
78389 LAB ID:32010 Tetrachloroethene MLOC=1	SAMPLE MEASUREMENT	*****	*****	*****	0.002	0.003	0	01/07	GR	
	PERMIT REQUIREMENT	*****	*****	*****	REPORT MO/AVG	REPORT DAILY MAX				
78391 LAB ID:32010 Trichloroethene MLOC=1	SAMPLE MEASUREMENT	*****	*****	*****	0.006	0.009	0	01/07	GR	
	PERMIT REQUIREMENT	*****	*****	*****	REPORT MO/AVG	REPORT DAILY MAX				
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER		I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN, AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION, I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT, SEE 18 USC § 1001 AND 33 USC § 1318. (Penalties under these statutes may include fines up to \$10,000 and/or imprisonment of between 6 months and 5 years.)				TELEPHONE		DATE		
Steve W. Webb RMT Project Manager						864 234-9363	01 08 27			
TYPED OR PRINTED		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT				AREA CODE	NUMBER	YEAR	MO	DAY

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

Discharge occurred nine days during the monitoring period.



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Greenville, SC  
Telephone: 864-281-0030  
Fax: 864-281-0288

CERTIFIED MAIL  
RETURN RECEIPT REQUESTED

September 26, 2001

S. C. Department of Health and Environmental Control  
Attn.: BWPC/Enforcement Section  
2600 Bull Street  
Columbia, South Carolina 29201

Reference: NPDES Permit No. SC0046469  
Medley Farm NPL Site  
Cherokee County

Subject: Transmittal of NPDES Discharge Monitoring Report  
August 2001

Dear Sir or Madam:

Attached are two copies of the Discharge Monitoring Report for Pipe 001 1 at the Medley Farm NPL Site. There were no permit exceptions for the monitoring period.

If there are any questions, please contact me at (864) 234-9363.

Sincerely,

RMT, Inc.

Steve W. Webb, Ph.D., P.E.  
Project Manager

**Attachment**

cc: Sheri Cresswell - US EPA Region IV  
C. W. Swygert - SC DHEC  
Medley Farm Site Steering Committee  
Jeff Friend, Neal Dunlap, File 938.89(c) - RMT

PERMITTEE NAME/ADDRESS (Include Facility Name/Location)

NAME MEDLEY FARM NPL SITE  
ADDRESS P. O. BOX 16778  
GREENVILLE, SC 29606

FACILITY LOCATION MEDLEY FARM NPL SITE  
BURNT GIN ROAD

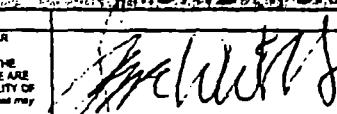
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)  
DISCHARGE MONITORING REPORT (DMR)  
(2-16) (17-19)

SC0046469 PERMIT NUMBER	001 1 DISCHARGE NUMBER
----------------------------	---------------------------

Form Approved.  
OMB No. 2040-0004  
Approval expires 05-31-98

21 A3 FINAL LIMITS  
DMR VALID: 10/01/1997 - 08/31/2002

NOTE: Read Instructions before completing this form.

PARAMETER (32-37)		(3 Card only) (46-53)			QUANTITY OR LOADING (54-61)			(3 Card only) (38-45)			QUALITY OR CONCENTRATION (46-53) (54-61)			NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS	REPORT	MO AVG	DAILY MX					
		SAMPLE MEASUREMENT	SAMPLE MEASUREMENT	SAMPLE MEASUREMENT	SAMPLE MEASUREMENT	SAMPLE MEASUREMENT	SAMPLE MEASUREMENT	SAMPLE MEASUREMENT	REPORT	MO AVG	DAILY MX					
00310 LAB ID:32010 BOD – 5 Day (20 Degrees C) MLOC=1	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****	2	2.1					0	01/07	GR	
00400 LAB ID:32010 pH Standard Units MLOC=1	SAMPLE MEASUREMENT	*****	*****	*****	6.71	*****	7.57						0	01/07	GR	
32103 LAB ID:32010 1,2-Dichloroethane Whole Water MLOC=1	SAMPLE MEASUREMENT	*****	*****	*****	6.0	MINIMUM	8.5	REPORT	0.028	DAILY MX				0	01/07	GR
34501 LAB ID:32010 1,1-Dichloroethylene Whole Water MLOC=1	SAMPLE MEASUREMENT	*****	*****	*****	0.0011	0.0012		REPORT	0.039	DAILY MX				0	02/30	GR
50050 LAB ID:ON-SITE Flow in Conduit MLOC=1	SAMPLE MEASUREMENT	0.0302	0.0459		*****	*****	*****	REPORT	0.072	DAILY MX				0	99/99	RF
78389 LAB ID:32010 Tetrachloroethene MLOC=1	SAMPLE MEASUREMENT	*****	*****	*****	*****	<0.001	<0.001	REPORT	0.028	DAILY MX				0	01/07	GR
78391 LAB ID:32010 Trichloroethene MLOC=1	SAMPLE MEASUREMENT	*****	*****	*****	*****	0.0017	0.0023	REPORT	0.028	DAILY MX				0	01/07	GR
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER		I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN, AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS NECESSARILY RESPONSIBLE FOR OBTAINING THE INFORMATION, I BELIEVE THE SUBMITTED INFORMATION IS ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT, SEE 16 USC § 1001 AND 23 USC § 1319. (Penalties under these statutes may include fines up to \$10,000 and/or imprisonment of between 6 months and 5 years.)								TELEPHONE		DATE				
Steve W. Webb RMT Project Manager										864 234-9363		01	09	24		
TYPED OR PRINTED		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT								AREA CODE	NUMBER	YEAR	MO	DAY		
COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)																



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P.O. Box 16778 29606-6778  
Greenville, SC  
Telephone: 864-281-0030  
Fax: 864-281-0288

October 24, 2001

S. C. Department of Health and Environmental Control  
Attn.: BWPC/Enforcement Section  
2600 Bull Street  
Columbia, South Carolina 29201

Reference: NPDES Permit No. SC0046469  
Medley Farm NPL Site  
Cherokee County

Subject: Transmittal of NPDES Discharge Monitoring Report  
September 2001

Dear Sir or Madam:

Attached are two copies of the Discharge Monitoring Report for Pipe 001 1 and Pipe 001 2 at the Medley Farm NPL Site. There were no permit exceptions for the monitoring period. Please note that the toxicity testing procedure has changed slightly to reflect current US EPA guidance (Method 1002.0).

If there are any questions, please contact me at (864) 234-9363.

Sincerely,

RMT, Inc.

Steve W. Webb, Ph.D., P.E.  
Project Manager

Attachment

cc: Sheri Cresswell - US EPA Region IV  
C. W. Swygert - SC DHEC  
Medley Farm Site Steering Committee  
Jeff Friend, Neal Durlap, File 938.89(c) - RMT

PERMITTEE NAME  
Facility Name/Location  
ESS (Include  
different)

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)  
DISCHARGE MONITORING REPORT (DMR)

(2-16)

(17-19)

NAME MEDLEY FARM NPL SITE  
ADDRESS P. O. BOX 16778  
GREENVILLE, SC 29606

FACILITY LOCATION MEDLEY FARM NPL SITE  
BURNT GIN ROAD

SC0046469  
PERMIT NUMBER

001 1  
DISCHARGE NUMBER

Form Approved.  
OMB No. 2040-0004  
Approval expires 05-31-98

21 A3 FINAL LIMITS  
DMR VALID: 10/01/1997 - 08/31/2002

FROM	MONITORING PERIOD					
	YEAR	MO	DAY	TO	YEAR	MO
	01	09	01	01	09	30
(20-21)	(22-23)	(24-25)	(26-27)	(28-29)	(30-31)	

NOTE: Read Instructions before completing this form.

PARAMETER (32-37)		(3 Card only) (46-53)	QUANTITY OR LOADING (54-61)	(3 Card only) (38-45)	QUALITY OR CONCENTRATION (46-53) (54-61)	NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)	
00310 LAB ID:32010 BOD – 5 Day (20 Degrees C) MLOC=1	SAMPLE MEASUREMENT	*****	*****	*****	***** <2	0	01/07	GR	
	PERMIT REQUIREMENT	*****	*****	*****	10 MO AVG 20 DAILY MX		01/30	GR	
00400 LAB ID:32010 pH Standard Units MLOC=1	SAMPLE MEASUREMENT	*****	*****	*****	***** 7.81	0	01/07	GR	
	PERMIT REQUIREMENT	*****	*****	*****	8.0 MINIMUM 8.5 MAXIMUM		01/07	GR	
32103 LAB ID:32010 1,2-Dichloroethane Whole Water MLOC=1	SAMPLE MEASUREMENT	*****	*****	*****	***** <0.001	0	01/07	GR	
	PERMIT REQUIREMENT	*****	*****	*****	REPORT MO AVG 0.028 DAILY MX		02/30	GR	
34501 LAB ID:32010 1,1-Dichloroethylene Whole Water MLOC=1	SAMPLE MEASUREMENT	*****	*****	*****	***** <0.001	0	01/07	GR	
	PERMIT REQUIREMENT	*****	*****	*****	REPORT MO AVG 0.039 DAILY MX		02/30	GR	
50050 LAB ID:ON-SITE Flow in Conduit MLOC=1	SAMPLE MEASUREMENT	0.0321	0.0399	MGD	*****	*****	0	99/99 RF	
	PERMIT REQUIREMENT	REPORT MO AVG	REPORT DAILY MAX		*****	*****		99/99 RF	
78389 LAB ID:32010 Tetrachloroethene MLOC=1	SAMPLE MEASUREMENT	*****	*****	*****	***** <0.001	0	01/07	GR	
	PERMIT REQUIREMENT	*****	*****	*****	REPORT MO AVG 0.072 DAILY MX		02/30	GR	
78391 LAB ID:32010 Trichloroethene MLOC=1	SAMPLE MEASUREMENT	*****	*****	*****	***** <0.001	0	01/07	GR	
	PERMIT REQUIREMENT	*****	*****	*****	REPORT MO AVG 0.028 DAILY MX		02/30	GR	
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER						TELEPHONE	DATE		
Steve W. Webb RMT Project Manager		I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN, AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION, I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT, SEE 18 USC §1001 AND 33 USC § 1319 (Penalties under these statutes may include fines up to \$10,000 and/or imprisonment of between 5 months and 5 years).				864 234-9363	01	10	24
TYPED OR PRINTED		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT				AREA CODE	NUMBER	YEAR MO DAY	

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

PERMITTEE NAME  
Facility Name/Loc.  
RESS (Include  
different)

NATIONAL JNT DISCHARGE ELIMINATION SYSTEM (NPDES)  
DISCHARGE MONITORING REPORT (DMR)

NAME MEDLEY FARM NPL SITE  
ADDRESS P. O. Box 16778  
GREENVILLE, SC 29606

FACILITY LOCATION MEDLEY FARM NPL SITE  
BURNT GIN ROAD

(2-16) SC00046469  
PERMIT NUMBER

(17-19) 001 2  
DISCHARGE NUMBER

Form Approved.  
OMB No. 2040-0004  
Approval expires 05-31-98

21 A3 FINAL LIMITS  
DMR VALID: 10/01/1997 - 08/31/2002

MONITORING PERIOD							
FROM	YEAR	MO	DAY	TO	YEAR	MO	DAY
	01	07	01		01	09	30
	(20-21)	(22-23)	(24-25)	(26-27)	(28-29)	(30-31)	

NOTE: Read instructions before completing this form.

PARAMETER (32-37)		(3 Card only) (46-53) QUANTITY OR LOADING (54-61)			(3 Card only) (38-45) QUALITY OR CONCENTRATION (46-53) (54-61)			NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)	
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM				UNITS
TGP3B LAB ID:32566 7 Day Chronic Static Toxicity C. Dubia PF MLOC=1	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****	0	0	01/90	GR	
	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	DAILY-MX	0=Pass 1=Fail	01/90	GR	
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
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	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER						TELEPHONE	DATE				
Steve W. Webb RMT Project Manager		I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN, AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION, I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT. SEE 18 USC §1061 AND 33 USC § 1319. (Penalties under these statutes may include fines up to \$10,000 and/or imprisonment of between 0 months and 5 years.)				864 234-9363	01	10	24		
TYPED OR PRINTED						SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA CODE	NUMBER	YEAR	MO	DAY

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)  
Chronic toxicity testing IWC = 41.50% effluent

## DMR Attachment for Toxicity Test Results. Bureau of Water.

MEDLEY FARMS NPL SITE Permit number SC0046469 Discharge number 0012  
 Final Limits 10/01/1997-08/31/2002 Parameter Code TGP3B MLOC=1 IWC=41.50% effluent

Monitoring period	Year	Month	Day	To	Year	Month	Day
	From	01	07		01	09	30

Date	All tests				Chronic tests only		
	Group	# Adults	# Dead	Pass/Fail	Average	Variance	Pass/Fail
Date <u>010813</u>	Control	10	0	PASS	29.8	26.40	PASS
Lab ID <u>32566</u>	Test	10	0		31.7	19.79	

Date	All tests				Chronic tests only		
	Group	# Adults	# Dead	Pass/Fail	Average	Variance	Pass/Fail
Date	Control						
Lab ID	Test						

Date	All tests				Chronic tests only		
	Group	# Adults	# Dead	Pass/Fail	Average	Variance	Pass/Fail
Date	Control						
Lab ID	Test						

Date	All tests				Chronic tests only		
	Group	# Adults	# Dead	Pass/Fail	Average	Variance	Pass/Fail
Date	Control						
Lab ID	Test						

Date	All tests				Chronic tests only		
	Group	# Adults	# Dead	Pass/Fail	Average	Variance	Pass/Fail
Date	Control						
Lab ID	Test						

Date	All tests				Chronic tests only		
	Group	# Adults	# Dead	Pass/Fail	Average	Variance	Pass/Fail
Date	Control						
Lab ID	Test						

Signature of Principal Executive Officer or Authorized Agent

Name/Title of Principal Executive Officer (typed or printed)



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P.O. Box 16778 29606-6778  
Greenville, SC  
Telephone: 864-281-0030  
Fax: 864-281-0288

CERTIFIED MAIL  
RETURN RECEIPT REQUESTED

November 21, 2001

S. C. Department of Health and Environmental Control  
Attn.: BWPC/Enforcement Section  
2600 Bull Street  
Columbia, South Carolina 29201

Reference: NPDES Permit No. SC0046469  
Medley Farm NPL Site  
Cherokee County

Subject: Transmittal of NPDES Discharge Monitoring Report  
October 2001

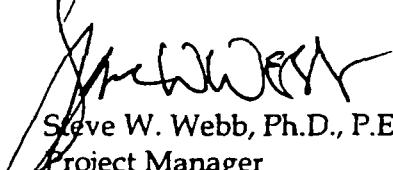
Dear Sir or Madam:

Attached are two copies of the Discharge Monitoring Report for Pipe 001 1 at the Medley Farm NPL Site. There were no permit exceptions for the monitoring period.

If there are any questions, please contact me at (864) 234-9363.

Sincerely,

RMT, Inc.



Steve W. Webb, Ph.D., P.E.  
Project Manager

Attachment

cc: Sheri Cresswell - US EPA Region IV  
C. W. Swygert - SC DHEC  
Medley Farm Site Steering Committee  
Jeff Friend, Neal Dunlap, File 938.89(c) - RMT

PERMITTEE NAME  
Facility Name/Location  
ESS (Include  
different)

NATIONAL  
DISCHARGE MONITORING REPORT (DMR)  
(2-16) (17-19)

NAME MEDLEY FARM NPL SITE  
ADDRESS P. O. BOX 16778  
GREENVILLE, SC 29606

SC0046469 PERMIT NUMBER	001 1 DISCHARGE NUMBER
----------------------------	---------------------------

Form Approved.  
OMB No. 2040-0004  
Approval expires 05-31-98

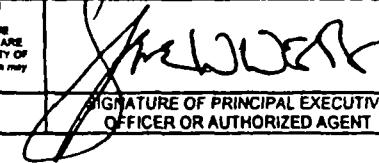
FACILITY LOCATION MEDLEY FARM NPL SITE  
BURNT GIN ROAD

FROM

MONITORING PERIOD						
YEAR	MO	DAY	TO	YEAR	MO	DAY
01	10	01	01	10	31	
(20-21)	(22-23)	(24-25)	(26-27)	(28-29)	(30-31)	

21 A3 FINAL LIMITS  
DMR VALID: 10/01/1997 - 08/31/2002

NOTE: Read instructions before completing this form.

PARAMETER (32-37)		(3 Card only) QUANTITY OR LOADING (46-53)			(3 Card only) QUALITY OR CONCENTRATION (38-45)				NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
00310 LAB ID:32010 BOD - 5 Day (20 Degrees C) MLOC=1	SAMPLE MEASUREMENT	*****	*****	*****	*****	<2	<2	MG/L	0	01/07	GR
	PERMIT REQUIREMENT	*****	*****	*****	*****	10 MO AVG	20 DAILY MX		01/30	GR	
00400 LAB ID:32010 pH Standard Units MLOC=1	SAMPLE MEASUREMENT	*****	*****	*****	6.75	*****	7.91	SU	0	01/07	GR
	PERMIT REQUIREMENT	*****	*****	*****	6.0 MINIMUM	*****	8.5 MAXIMUM		01/07	GR	
32103 LAB ID:32010 1,2-Dichloroethane Whole Water MLOC=1	SAMPLE MEASUREMENT	*****	*****	*****	*****	<0.001	<0.001	MG/L	0	01/07	GR
	PERMIT REQUIREMENT	*****	*****	*****	*****	REPORT MO AVG	0.028 DAILY MX		02/30	GR	
34501 LAB ID:32010 1,1-Dichloroethylene Whole Water MLOC=1	SAMPLE MEASUREMENT	*****	*****	*****	*****	<0.001	<0.001	MG/L	0	01/07	GR
	PERMIT REQUIREMENT	*****	*****	*****	*****	REPORT MO AVG	0.039 DAILY MX		02/30	GR	
50050 LAB ID:ON-SITE Flow in Conduit MLOC=1	SAMPLE MEASUREMENT	0.028	0.032	MGD	*****	*****	*****	*****	0	99/99	RF
	PERMIT REQUIREMENT	REPORT MO AVG	REPORT DAILY MAX		*****	*****	*****		*****	99/99	RF
78389 LAB ID:32010 Tetrachloroethene MLOC=1	SAMPLE MEASUREMENT	*****	*****	*****	*****	<0.001	<0.001	MG/L	0	01/07	GR
	PERMIT REQUIREMENT	*****	*****	*****	*****	REPORT MO AVG	0.072 DAILY MX		02/30	GR	
78391 LAB ID:32010 Trichloroethene MLOC=1	SAMPLE MEASUREMENT	*****	*****	*****	*****	<0.001	<0.001	MG/L	0	01/07	GR
	PERMIT REQUIREMENT	*****	*****	*****	*****	REPORT MO AVG	0.028 DAILY MX		02/30	GR	
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER		I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN, AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS NECESSARILY RESPONSIBLE FOR OBTAINING THE INFORMATION, BELIEVE THE DATA AND INFORMATION TRUE, ACCURATE AND COMPLETE. I ALSO STATE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT. SEE 15 USC §1051 AND 23 USC § 1319. (Penalties under these statutes may include fines up to \$10,000 and/or imprisonment of between 6 months and 5 years.)				TELEPHONE		DATE			
Steve W. Webb RMT Project Manager						864 234-9363		01	11	21	
TYPED OR PRINTED		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT				AREA CODE	NUMBER	YEAR	MO	DAY	
COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)											



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Greenville, SC  
Telephone: 864-281-0030  
Fax: 864-281-0288

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December 10, 2001

S. C. Department of Health and Environmental Control  
Attn.: BWPC/Enforcement Section  
2600 Bull Street  
Columbia, South Carolina 29201

Reference: NPDES Permit No. SC0046469  
Medley Farm NPL Site  
Cherokee County

Subject: Transmittal of NPDES Discharge Monitoring Report  
November 2001

Dear Sir or Madam:

Attached are two copies of the Discharge Monitoring Report for Pipe 001 1 at the Medley Farm NPL Site. There were no permit exceptions for the monitoring period.

If there are any questions, please contact me at (864) 234-9363.

Sincerely,

RMT, Inc.

Steve W. Webb, Ph.D., P.E.  
Project Manager

Attachment

cc: Sheri Cresswell - US EPA Region IV  
C. W. Swygert - SC DHEC  
Medley Farm Site Steering Committee  
Jeff Friend, Neal Dunlap, File 938.89(c) - RMT

PERMITTEE NAME  
Facility Name/Location  
(Include different)

ADDRESS

MEDLEY FARM NPL SITE  
P. O. BOX 16778  
GREENVILLE, SC 29606

NATIONAL DISCHARGE ELIMINATION SYSTEM (NPDES)  
DISCHARGE MONITORING REPORT (DMR)

(2-16)

(17-19)

SC0046469  
PERMIT NUMBER

001 1  
DISCHARGE NUMBER

FACILITY LOCATION  
MEDLEY FARM NPL SITE  
BURNT GIN ROAD

FROM

MONITORING PERIOD						
YEAR	MO	DAY	TO	YEAR	MO	DAY
01	11	01		01	11	30
(20-21)	(22-23)	(24-25)		(26-27)	(28-29)	(30-31)

21 A3 FINAL LIMITS  
DMR VALID: 10/01/1997 - 08/31/2002

Form Approved.

OMB No. 2040-0004

Approval expires 05-31-98

NOTE: Read instructions before completing this form.

PARAMETER (32-37)		(3 Card only) (46-53)	QUANTITY OR LOADING (54-61)	(3 Card only) (38-45)	QUALITY OR CONCENTRATION (46-53)	(54-61)	NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
00310 LAB ID:32010 BOD – 5 Day (20 Degrees C) MLOC=1	SAMPLE MEASUREMENT	*****	*****	*****	*****	<2	<2		
	PERMIT REQUIREMENT	*****	*****	*****	*****	10 MO AVG	20 DAILY MX	MG/L	0 01/07 GR
00400 LAB ID:32010 pH Standard Units MLOC=1	SAMPLE MEASUREMENT	*****	*****	*****	*****	7.12	8.47		
	PERMIT REQUIREMENT	*****	*****	*****	*****	6.0 MINIMUM	8.5 MAXIMUM	SU	0 01/07 GR
32103 LAB ID:32010 1,2-Dichloroethane Whole Water MLOC=1	SAMPLE MEASUREMENT	*****	*****	*****	*****	<0.001	<0.001		
	PERMIT REQUIREMENT	*****	*****	*****	*****	REPORT MO AVG	0.028 DAILY MX	MG/L	0 01/07 GR
34501 LAB ID:32010 1,1-Dichloroethylene Whole Water MLOC=1	SAMPLE MEASUREMENT	*****	*****	*****	*****	<0.001	<0.001		
	PERMIT REQUIREMENT	*****	*****	*****	*****	REPORT MO AVG	0.039 DAILY MX	MG/L	0 02/30 GR
50050 LAB ID:ON-SITE Flow in Conduit MLOC=1	SAMPLE MEASUREMENT	0.0259	0.0287	*****	*****	*****	*****		
	PERMIT REQUIREMENT	REPORT MO AVG	REPORT DAILY MAX	MGD	*****	*****	*****		
78389 LAB ID:32010 Tetrachloroethene MLOC=1	SAMPLE MEASUREMENT	*****	*****	*****	*****	<0.001	<0.001		
	PERMIT REQUIREMENT	*****	*****	*****	*****	REPORT MO AVG	0.072 DAILY MX	MG/L	0 01/07 GR
78391 LAB ID:32010 Trichloroethene MLOC=1	SAMPLE MEASUREMENT	*****	*****	*****	*****	<0.001	<0.001		
	PERMIT REQUIREMENT	*****	*****	*****	*****	REPORT MO AVG	0.028 DAILY MX	MG/L	0 02/30 GR
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER				TELEPHONE				DATE	
Steve W. Webb RMT Project Manager				864 234-9363				01	12 10
TYPED OR PRINTED		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT				AREA CODE	NUMBER	YEAR	MO DAY
COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)									



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P.O. Box 16778 29606-6778  
Greenville, SC  
Telephone: 864-281-0030  
Fax: 864-281-0288

CERTIFIED MAIL  
RETURN RECEIPT REQUESTED

January 10, 2002

S. C. Department of Health and Environmental Control  
Attn.: BWPC/Enforcement Section  
2600 Bull Street  
Columbia, South Carolina 29201

Reference: NPDES Permit No. SC0046469  
Medley Farm NPL Site  
Cherokee County

Subject: Transmittal of NPDES Discharge Monitoring Report  
December 2001

Dear Sir or Madam:

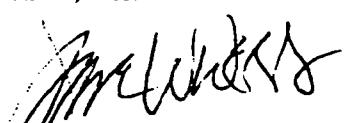
Attached are two copies of the Discharge Monitoring Report for Pipe 001 1 and 001 2 at the Medley Farm NPL Site. There were no permit exceptions for the monitoring period.

During this quarter, two serial dilution tests were performed on the effluent and two tests were performed on effluent that was modified to increase its hardness to approximately 100 mg/L. The tests showed no effect at the chronic test concentration of 41.5 percent. These tests were conducted to gather additional data for the site's NPDES permit renewal. Details of the serial dilution tests will be included in the permit application package.

If there are any questions, please contact me at (864) 234-9363.

Sincerely,

RMT, Inc.



Steve W. Webb, Ph.D., P.E.  
Project Manager

Attachment

cc: Sheri Cresswell - US EPA Region IV  
C. W. Swygert - SC DHEC  
Medley Farm Site Steering Committee  
Jeff Friend, Neal Dunlap, File 938.89(c) - RMT

PARTICIPANT NAME  
Facility Name/Location

RESS (Include  
different)

NAME MEDLEY FARM NPL SITE  
ADDRESS P. O. BOX 16778  
GREENVILLE, SC 29606

NATIONAL DISCHARGE MONITORING REPORT (NDMR)  
(2-16) (17-19)

SC0046469  
PERMIT NUMBER

0011  
DISCHARGE NUMBER

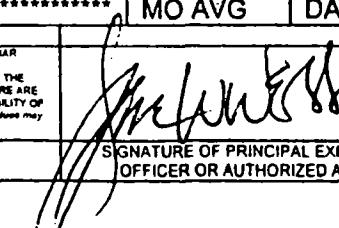
Form Approved.  
OMB No. 2040-0004  
Approval expires 05-31-98

FACILITY LOCATION MEDLEY FARM NPL SITE  
BURNt GIN ROAD

FROM	MONITORING PERIOD						
	YEAR	MO	DAY	TO	YEAR	MO	DAY
	01	12	01		01	12	31
	(20-21)	(22-23)	(24-25)	(26-27)	(28-29)	(30-31)	

21 A3 FINAL LIMITS  
DMR VALID: 10/01/1997 - 08/31/2002

NOTE: Read instructions before completing this form.

PARAMETER (32-37)	SAMPLE MEASUREMENT	(3 Card only) (46-53)		QUANTITY OR LOADING (54-61)		(3 Card only) (38-45)		QUALITY OR CONCENTRATION (46-53) (54-61)		NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)		
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS						
00310 LAB ID:32010 BOD - 5 Day (20 Degrees C) MLOC=1	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****	<2	<2	MG/L	0	01/07	GR		
	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	10 MO AVG	20 DAILY MX			01/30	GR		
00400 LAB ID:32010 pH Standard Units MLOC=1	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****	8.00	8.28	SU	0	01/07	GR		
	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	6.0 MINIMUM	8.5 MAXIMUM			01/07	GR		
32103 LAB ID:32010 1,2-Dichloroethane Whole Water MLOC=1	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****	<0.001	<0.001	MG/L	0	01/07	GR		
	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	REPORT MO AVG	0.028 DAILY MX			02/30	GR		
34501 LAB ID:32010 1,1-Dichloroethylene Whole Water MLOC=1	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****	<0.001	<0.001	MG/L	0	01/07	GR		
	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	REPORT MO AVG	0.039 DAILY MX			02/30	GR		
50050 LAB ID:ON-SITE Flow in Conduit MLOC=1	SAMPLE MEASUREMENT	0.0324	0.0405	MGD	*****	*****	*****	*****	*****	0	99/99	RF		
	PERMIT REQUIREMENT	REPORT MO AVG	REPORT DAILY MAX		*****	*****	*****	*****				99/99	RF	
78389 LAB ID:32010 Tetrachloroethene MLOC=1	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****	<0.001	<0.001	MG/L	0	01/07	GR		
	PERMIT REQUIREMENT	*****	*****		*****	*****	*****	REPORT MO AVG		0.072 DAILY MX		02/30	GR	
78391 LAB ID:32010 Trichloroethene MLOC=1	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****	<0.001	<0.001	MG/L	0	01/07	GR		
	PERMIT REQUIREMENT	*****	*****		*****	*****	*****	REPORT MO AVG		0.028 DAILY MX		02/30	GR	
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER										TELEPHONE	DATE			
Steve W. Webb RMT Project Manager		<p>I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN, AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS NECESSARY TO MAKE THIS CERTIFICATION, BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE, AND COMPLETE. I AMWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT. SEE 18 USC § 1001 AND 23 USC § 1318. (Penalties under these statutes may include fines up to \$10,000 and/or maximum imprisonment of between 6 months and 5 years.)</p> 								864 234-9363	02	01	10	
TYPED OR PRINTED						SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT				AREA CODE	NUMBER	YEAR	MO	DAY
COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)														

PARTICIPANT NAME  
Facility Name/Location

RESS (Include  
any different)

NATIONAL DISCHARGE ELIMINATION SYSTEM (NPDES)  
DISCHARGE MONITORING REPORT (DMR)

(2-16)

(17-19)

NAME MEDLEY FARM NPL SITE  
ADDRESS P. O. Box 16778  
GREENVILLE, SC 29606

SC00046469
PERMIT NUMBER

001 2
DISCHARGE NUMBER

Form Approved.

OMB No. 2040-0004

Approval expires 05-31-98

MONITORING PERIOD							
FROM	YEAR	MO	DAY	TO	YEAR	MO	DAY
	01	10	01		01	12	31
	(20-21)	(22-23)	(24-25)		(26-27)	(28-29)	(30-31)

21 A3 FINAL LIMITS  
DMR VALID: 10/01/1997 - 08/31/2002

NOTE: Read instructions before completing this form.

PARAMETER (32-37)		(3 Card only) QUANTITY OR LOADING (46-53) (54-61)			QUALITY OR CONCENTRATION (38-45) (46-53) (54-61)				NO. EX (62-63)	FREQUENCY OF ANALYSIS (84-88)	SAMPLE TYPE (69-70)	
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS				
TGP3B LAB ID:32566 7 Day Chronic Static Toxicity C. Dubia PF MLOC=1	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****	*****	0 0=Pass 1=Fail	02/90	GR		
	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	*****					
	SAMPLE MEASUREMENT											
	PERMIT REQUIREMENT											
	SAMPLE MEASUREMENT											
	PERMIT REQUIREMENT											
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	PERMIT REQUIREMENT											
	SAMPLE MEASUREMENT											
	PERMIT REQUIREMENT											
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER						TELEPHONE		DATE				
Steve W. Webb RMT Project Manager						864 234-9363		02	01	10		
TYPED OR PRINTED						SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT		AREA CODE	NUMBER	YEAR	MO	DAY

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

Chronic toxicity testing IWC = 41.50% effluent

## DMR Attachment for Toxicity Test Results. Bureau of Water.

MEDLEY FARMS NPL SITE Permit number SC0046469 Discharge number 0012  
 Final Limits 10/01/1997-08/31/2002 Parameter Code TGP3B MLOC=1 IWC=41.50% effluent.

Monitoring period From	Year	Month	Day	To	Year	Month	Day
	01	10	01		01	12	31

		All tests			Chronic tests only			
Date	Lab ID	Group	# Adults	# Dead	Pass/Fail	Average	Variance	Pass/Fail
01/1008	32566	Control	10	0	PASS	24.7	32.5	
		Test	10	0		23.2	11.3	PASS
		All tests			Chronic tests only			
Date	Lab ID	Group	# Adults	# Dead	Pass/Fail	Average	Variance	Pass/Fail
01/1126	32566	Control	10	0	PASS	26.3	97.8	
		Test	10	0		23.5	82.4	PASS
		All tests			Chronic tests only			
Date	Lab ID	Group	# Adults	# Dead	Pass/Fail	Average	Variance	Pass/Fail
		Control						
		Test						
		All tests			Chronic tests only			
Date	Lab ID	Group	# Adults	# Dead	Pass/Fail	Average	Variance	Pass/Fail
		Control						
		Test						
		All tests			Chronic tests only			
Date	Lab ID	Group	# Adults	# Dead	Pass/Fail	Average	Variance	Pass/Fail
		Control						
		Test						
		All tests			Chronic tests only			
Date	Lab ID	Group	# Adults	# Dead	Pass/Fail	Average	Variance	Pass/Fail
		Control						
		Test						

Signature of Principal Executive Officer or Authorized Agent

Name/Title of Principal Executive Officer (typed or printed)

# **Appendix D**

## **Soil Vapor Extraction Analytical Laboratory Reports**

---



**Wisconsin Occupational  
Health Laboratory**

Mail:  
P.O. Box 7996  
Madison, WI 53707-7996  
Phone: (800) 446-0403

Packages:  
2601 Agriculture Dr.  
Madison, WI 53718  
Fax: (608) 224-6213

Wisconsin State Laboratory of Hygiene

University of Wisconsin

October 18, 2001

KAREN BROOKS  
RMT - GREENVILLE  
100 VERDAE BLVD  
PO BOX 16778  
GREENVILLE SC 29606-6778

Company #: 42

PROJ 7123807 71243.07  
MEDLEYFARM

The results for the samples received by the lab on 10/11/01  
are as follows:

Lab#	Field#	Value	Unit	Analyte
914645	VE301			Solvent Scan
		ND <1.0	ug/sample	Dichloroethylene (1,2-)
		ND <1.6	ug/sample	Trichloroethylene
		ND <4.0	ug/sample	Chloroform
		ND <2.0	ug/sample	Perchloroethylene
		3.3	ug/sample	Ethylene Dichloride
		ND <0.40	ug/sample	Petroleum Distillates
		ND <0.40	ug/sample	Naphtha (Coal Tar)
914646	VE302			Solvent Scan
		ND <3.0	ug/sample	Dichloroethylene (1,2-)
		ND <4.8	ug/sample	Trichloroethylene
		ND <12	ug/sample	Chloroform
		ND <6.0	ug/sample	Perchloroethylene
		ND <3.9	ug/sample	Ethylene Dichloride
		ND <1.2	ug/sample	Petroleum Distillates
		ND <1.2	ug/sample	Naphtha (Coal Tar)
914647	VE303			Solvent Scan
		ND <3.0	ug/sample	Dichloroethylene (1,2-)
		<=9.9	ug/sample	Trichloroethylene
		ND <12	ug/sample	Chloroform
		<=12	ug/sample	Perchloroethylene
		197	ug/sample	Ethylene Dichloride
		ND <1.2	ug/sample	Petroleum Distillates
		ND <1.2	ug/sample	Naphtha (Coal Tar)
914648	VE304			Solvent Scan
		<=6.0	ug/sample	Dichloroethylene (1,2-)
		193	ug/sample	Trichloroethylene
		<=24	ug/sample	Chloroform
		99	ug/sample	Perchloroethylene
		266	ug/sample	Ethylene Dichloride
		ND <1.2	ug/sample	Petroleum Distillates



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RMT - GREENVILLE

October 18, 2001

page 2

PROJ 7123807  
MEDLEYFARM

Lab#	Field#	Value	Unit	Analyte
914648	VE304	ND <1.2	ug/sample	Naphtha (Coal Tar)
914649	DP31			Solvent Scan
		ND <3.0	ug/sample	Dichloroethylene (1,2-)
		31	ug/sample	Trichloroethylene
		ND <12	ug/sample	Chloroform
		ND <6.0	ug/sample	Perchloroethylene
		167	ug/sample	Ethylene Dichloride
		ND <1.2	ug/sample	Petroleum Distillates
		ND <1.2	ug/sample	Naphtha (Coal Tar)
914650	DP32			Solvent Scan
		ND <3.0	ug/sample	Dichloroethylene (1,2-)
		19	ug/sample	Trichloroethylene
		ND <12	ug/sample	Chloroform
		<=12	ug/sample	Perchloroethylene
		39	ug/sample	Ethylene Dichloride
		ND <1.2	ug/sample	Petroleum Distillates
		ND <1.2	ug/sample	Naphtha (Coal Tar)
914651	VM301S			Solvent Scan
		ND <1.0	ug/sample	Dichloroethylene (1,2-)
		3.9	ug/sample	Trichloroethylene
		ND <4.0	ug/sample	Chloroform
		4.1	ug/sample	Perchloroethylene
		6.9	ug/sample	Ethylene Dichloride
		23	ug/sample	Petroleum Distillates
		<=0.80	ug/sample	Naphtha (Coal Tar)
914652	VM301D			Solvent Scan
		ND <1.0	ug/sample	Dichloroethylene (1,2-)
		9.3	ug/sample	Trichloroethylene
		ND <4.0	ug/sample	Chloroform
		6.4	ug/sample	Perchloroethylene
		28	ug/sample	Ethylene Dichloride
		ND <0.40	ug/sample	Petroleum Distillates
		ND <0.40	ug/sample	Naphtha (Coal Tar)
914653	VM302S			Solvent Scan
		ND <3.0	ug/sample	Dichloroethylene (1,2-)
		ND <4.8	ug/sample	Trichloroethylene
		ND <12	ug/sample	Chloroform



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October 18, 2001

page 3

PROJ 7123807  
MEDLEYFARM

Lab#	Field#	Value	Unit	Analyte
914653	VM302S	ND <6.0	ug/sample	Perchloroethylene
		ND <3.9	ug/sample	Ethylene Dichloride
		ND <1.2	ug/sample	Petroleum Distillates
		ND <1.2	ug/sample	Naphtha (Coal Tar)
914654	VM302D			Solvent Scan
		ND <3.0	ug/sample	Dichloroethylene (1,2-)
		ND <4.8	ug/sample	Trichloroethylene
		ND <12	ug/sample	Chloroform
		156	ug/sample	Perchloroethylene
		ND <3.9	ug/sample	Ethylene Dichloride
		ND <1.2	ug/sample	Petroleum Distillates
914655	VM303S			Naphtha (Coal Tar)
		ND <1.0	ug/sample	Solvent Scan
		ND <1.6	ug/sample	Dichloroethylene (1,2-)
		ND <4.0	ug/sample	Trichloroethylene
		5.1	ug/sample	Chloroform
		ND <1.3	ug/sample	Perchloroethylene
		<=0.80	ug/sample	Ethylene Dichloride
914656	VM303D			Petroleum Distillates
		ND <1.0	ug/sample	Naphtha (Coal Tar)
		ND <1.6	ug/sample	Solvent Scan
		ND <4.0	ug/sample	Dichloroethylene (1,2-)
		373	ug/sample	Trichloroethylene
		ND <1.3	ug/sample	Chloroform
		<=0.80	ug/sample	Perchloroethylene
914657	VM304S			Ethylene Dichloride
		ND <1.0	ug/sample	Petroleum Distillates
		10	ug/sample	Naphtha (Coal Tar)
		ND <4.0	ug/sample	Solvent Scan
		ND <2.0	ug/sample	Dichloroethylene (1,2-)
		306	ug/sample	Trichloroethylene
		ND <0.40	ug/sample	Chloroform



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October 18, 2001

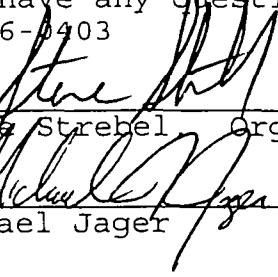
page 4

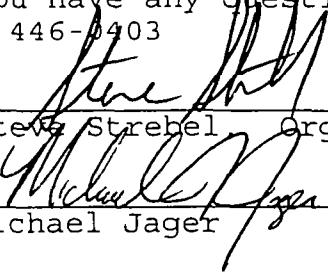
PROJ 7123807  
MEDLEYFARM

Lab#	Field#	Value	Unit	Analyte
914658	VM304D			Solvent Scan
		ND <1.0	ug/sample	Dichloroethylene (1,2-)
		98	ug/sample	Trichloroethylene
		ND <4.0	ug/sample	Chloroform
		ND <2.0	ug/sample	Perchloroethylene
		37	ug/sample	Ethylene Dichloride
		8.0	ug/sample	Petroleum Distillates
		ND <0.40	ug/sample	Naphtha (Coal Tar)

Report contains 4 page(s).

If you have any questions about these results, please call the lab at  
(800) 446-0403

  
Steve Strehel Organic Supervisor

  
Michael Jager



## **CHAIN OF CUSTODY RECORD**

Nº 73412

100 Verde Boulevard, P.O. Box 16778 • Greenville, SC 29606-6778 • Phone (864) 281-0030 • Fax (864) 281-0288

**SPECIAL INSTRUCTIONS**

SAMPLER Relinquished by (Sig.) <i>D. P. C. M.</i>	Date/Time 10-10-01	Received by (Sig.) <i>AmChay</i>	Date/Time 10-11-01	HAZARDS ASSOCIATED WITH SAMPLES  <input type="checkbox"/> Flammable <input type="checkbox"/> Corrosive <input type="checkbox"/> Highly Toxic <input type="checkbox"/> Other (list) <hr/>	Turn Around (circle one)	Normal	Rush	
Relinquished by (Sig.)	Date/Time	Received by (Sig.)	Date/Time		Report Due _____			
Relinquished by (Sig.)	Date/Time	Received by (Sig.)	Date/Time		(For Lab Use Only)			
				Receipt Temp:	Receipt pH			
				Temp Blank    Y    N	(Wet/Metals)			
<hr/>								
Custody Seal: Present/Absent    Intact/Not Intact    Seal #'s								



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Health Laboratory*

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Wisconsin State Laboratory of Hygiene

University of Wisconsin

October 18, 2001

42

KAREN BROOKS  
RMT - GREENVILLE  
100 VERDAE BLVD  
PO BOX 16778  
GREENVILLE SC 29606-6778

## GENERAL SOLVENTS

These samples are analyzed using a method based on OSHA 7.

The collection media is a SMALL, LARGE or JUMBO Activated Charcoal tube.

Front and back sections of the tube are separately desorbed in 1 ml for SMALL tubes, 3 ml for LARGE tubes or 5 or 10 ml for JUMBO tubes of Carbon Disulfide for 30 minutes prior to analysis.

The samples are run on a Hewlett-Packard Gas Chromatograph equipped with an FID. The Primary and Confirming columns were chosen from the following:

Carbopack C /0.1% SP-1000  
VoCol 105M Capillary  
HP-5 Capillary  
Supelcowax-10 Capillary  
SPB-624 capillary

Samples may also have been confirmed on a Model 5972 Hewlett-Packard Gas Chromatograph Mass-Selective Detector containing a Nukol Capillary.

Reporting Limits are specific for each substance.

Michael Jager

Analyst

Steve Strebler

Organic Supervisor



## LABORATORY QUALITY CONTROL REPORT

Chemist Initials: MJJ      Analysis Date: 10 - 12 - 01      Equipment Code: 115F  
Equipment Description: 6890 Gas chromatograph

The following samples were analyzed for QUALITY COMPLIANCE along with normal FIELD samples.

These results meet WOHL Lab Quality Control criteria.

----- CORRECT -----

REPORTED VALUES ARE CORRECT FOR SAMPLES: 91049 AND 91050  
Results are within 1 standard deviation.

Q-C Sample#	Reported Value(R)	Actual Value(A)	Units	Ratio (R/A)	Std Dev	S-Code	Substance Name
91049	931.100	882.000	ug/sam	1.0557	1	440	n-butyl acetate
91049	1327.080	1338.000	ug/sam	.9918	1	1720	Methyl chloroform (1,1,1-TCE)
91049	878.500	865.000	ug/sam	1.0156	1	2460	Toluene
91050	918.700	882.000	ug/sam	1.0416	1	440	n-butyl acetate
91050	1287.140	1338.000	ug/sam	.9620	1	1720	Methyl chloroform (1,1,1-TCE)
91050	878.900	865.000	ug/sam	1.0161	1	2460	Toluene

The Quality Control limits are calculated based on 1, 2, and 3 STANDARD DEVIATIONS derived from historical data for a particular analyte. The MEAN values are adjusted to 1 in order to avoid any positive or negative bias.

KEY : COLUMN HEADINGS

- Q-C Sample# : Laboratory prepared Quality Control sample number.  
Reported Value : Analyst's results.  
Actual Value : Amount of analyte applied to the QC sample.  
Ratio : Ratio of Reported/Actual.  
Std Dev : Number of Standard Deviations from the MEAN value.  
S-Code : Substance (analyte) code.



**Wisconsin Occupational  
Health Laboratory**

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Wisconsin State Laboratory of Hygiene

University of Wisconsin

October 19, 2001

KAREN BROOKS  
RMT - GREENVILLE  
100 VERDAE BLVD  
PO BOX 16778  
GREENVILLE SC 29606-6778

Company #: 42

PROJ 7124307  
MEDLEYFARM SVE

The results for the samples received by the lab on 10/15/01  
are as follows:

Lab#	Field#	Value	Unit	Analyte
915108	STACK101101			Solvent Scan
		10	ug/sample	Ethylen Dichloride
		ND <1.2	ug/sample	Petroleum Distillates
		ND <1.2	ug/sample	Naphtha (Coal Tar)
		<=9.9	ug/sample	Trichloroethylene

Report contains 1 page(s).

If you have any questions about these results, please call the lab at  
(800) 446-0403

Steve Strelbel, Organic Supervisor

Shari Schwabe  
Shari Schwabe

## WOHL Study Limits (ug/sample)

Analyte	MDL	MQL
Ethylene Dichloride	3.9	7.8
Petroleum Distillates	1.2	2.4
Naphtha (Coal Tar)	1.2	2.4
Trichloroethylene	4.8	9.9



October 19, 2001

42

KAREN BROOKS  
RMT - GREENVILLE  
100 VERDAE BLVD  
PO BOX 16778  
GREENVILLE SC 29606-6778

## GENERAL SOLVENTS

These samples are analyzed using a method based on OSHA 7.

The collection media is a SMALL, LARGE or JUMBO Activated Charcoal tube.

Front and back sections of the tube are separately desorbed in 1 ml for SMALL tubes, 3 ml for LARGE tubes or 5 or 10 ml for JUMBO tubes of Carbon Disulfide for 30 minutes prior to analysis.

The samples are run on a Hewlett-Packard Gas Chromatograph equipped with an FID. The Primary and Confirming columns were chosen from the following:

Carbopack C /0.1% SP-1000  
VoCol 105M Capillary  
HP-5 Capillary  
Supelcowax-10 Capillary  
SPB-624 capillary

Samples may also have been confirmed on a Model 5972 Hewlett-Packard Gas Chromatograph Mass-Selective Detector containing a Nukol Capillary.

Reporting Limits are specific for each substance.

Shari Schwabe

Analyst

Steve Strebcl

Organic Supervisor



*Wisconsin Occupational  
Health Laboratory*

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Wisconsin State Laboratory of Hygiene

University of Wisconsin

## LABORATORY QUALITY CONTROL REPORT

Chemist Initials: SLS      Analysis Date: 10 - 16 - 01      Equipment Code: 105F  
Equipment Description: HP GAS CHROM (F-FRONT)

The following samples were analyzed for QUALITY COMPLIANCE along with normal FIELD samples.

These results meet WOHL Lab Quality Control criteria.

----- CORRECT -----

REPORTED VALUES ARE CORRECT FOR SAMPLES: 90433 AND 90434  
Results are within 1 standard deviation.

Q-C Sample#	Reported Value(R)	Actual Value(A)	Units	Ratio (R/A)	Std Dev	S-Code	Substance Name
90433	3516.000	3528.000	ug/sam	.9966	1	440	n-butyl acetate
90434	853.000	882.000	ug/sam	.9671	1	440	n-butyl acetate

The Quality Control limits are calculated based on 1, 2, and 3 STANDARD DEVIATIONS derived from historical data for a particular analyte. The MEAN values are adjusted to 1 in order to avoid any positive or negative bias.

### KEY : COLUMN HEADINGS

- Q-C Sample# : Laboratory prepared Quality Control sample number.  
Reported Value : Analyst's results.  
Actual Value : Amount of analyte applied to the QC sample.  
Ratio : Ratio of Reported/Actual.  
Std Dev : Number of Standard Deviations from the MEAN value.  
S-Code : Substance (analyte) code.



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Wisconsin State Laboratory of Hygiene

University of Wisconsin

May 9, 2001

KAREN BROOKS/DAVID ROOS  
RMT - GREENVILLE  
100 VERDAE BLVD  
PO BOX 16778  
GREENVILLE SC 29606-6778

Company #: 42

PROJ 7124307  
MEDLEYFARMSVE

The results for the samples received by the lab on 05/03/01  
are as follows:

Lab#	Field#	Value	Unit	Analyte
886612	STK043001			Solvent Scan
		ND <4.8	ug/sample	Trichloroethylene
		ND <6.0	ug/sample	Perchloroethylene
		<=7.8	ug/sample	Ethylene Dichloride
		ND <1.2	ug/sample	Petroleum Distillates
		ND <1.2	ug/sample	Naphtha (Coal Tar)
886613	DP21			Solvent Scan
		36	ug/sample	Trichloroethylene
		78	ug/sample	Perchloroethylene
		ND <3.9	ug/sample	Ethylene Dichloride
		ND <1.2	ug/sample	Petroleum Distillates
		ND <1.2	ug/sample	Naphtha (Coal Tar)
886614	DP31			Solvent Scan
		23	ug/sample	Trichloroethylene
		ND <6.0	ug/sample	Perchloroethylene
		286	ug/sample	Ethylene Dichloride
		ND <1.2	ug/sample	Petroleum Distillates
		ND <1.2	ug/sample	Naphtha (Coal Tar)
886615	DP32			Solvent Scan
		18	ug/sample	Trichloroethylene
		ND <6.0	ug/sample	Perchloroethylene
		55	ug/sample	Ethylene Dichloride
		ND <1.2	ug/sample	Petroleum Distillates
		ND <1.2	ug/sample	Naphtha (Coal Tar)
886616	VM301SHLW			Solvent Scan
		ND <4.8	ug/sample	Trichloroethylene
		ND <6.0	ug/sample	Perchloroethylene
		ND <3.9	ug/sample	Ethylene Dichloride
		ND <1.2	ug/sample	Petroleum Distillates
		ND <1.2	ug/sample	Naphtha (Coal Tar)



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Health Laboratory**

Mail:  
P.O. Box 7996  
Madison, WI 53707-7996  
Phone: (800) 446-0403

Packages:  
2601 Agriculture Dr.  
Madison, WI 53718  
Fax: (608) 224-6213

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RMT - GREENVILLE

May 9, 2001

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PROJ 7124307  
MEDLEYFARMSVE

Lab#	Field#	Value	Unit	Analyte
886617	VM301DEEP			Solvent Scan
		14	ug/sample	Trichloroethylene
		<=12	ug/sample	Perchloroethylene
		27	ug/sample	Ethylene Dichloride
		ND <1.2	ug/sample	Petroleum Distillates
		ND <1.2	ug/sample	Naphtha (Coal Tar)
886618	VM302SHLW			Solvent Scan
		ND <4.8	ug/sample	Trichloroethylene
		ND <6.0	ug/sample	Perchloroethylene
		ND <3.9	ug/sample	Ethylene Dichloride
		ND <1.2	ug/sample	Petroleum Distillates
		ND <1.2	ug/sample	Naphtha (Coal Tar)
886619	VM302DEEP			Solvent Scan
		ND <4.8	ug/sample	Trichloroethylene
		73	ug/sample	Perchloroethylene
		<=7.8	ug/sample	Ethylene Dichloride
		ND <1.2	ug/sample	Petroleum Distillates
		ND <1.2	ug/sample	Naphtha (Coal Tar)
886620	VM303SHLW			Solvent Scan
		ND <4.8	ug/sample	Trichloroethylene
		<=12	ug/sample	Perchloroethylene
		ND <3.9	ug/sample	Ethylene Dichloride
		ND <1.2	ug/sample	Petroleum Distillates
		ND <1.2	ug/sample	Naphtha (Coal Tar)
886621	VM303DEEP			Solvent Scan
		ND <4.8	ug/sample	Trichloroethylene
		114	ug/sample	Perchloroethylene
		ND <3.9	ug/sample	Ethylene Dichloride
		ND <1.2	ug/sample	Petroleum Distillates
		ND <1.2	ug/sample	Naphtha (Coal Tar)
886622	VM304SHLW			Solvent Scan
		38	ug/sample	Trichloroethylene
		ND <6.0	ug/sample	Perchloroethylene
		456	ug/sample	Ethylene Dichloride
		ND <1.2	ug/sample	Petroleum Distillates
		ND <1.2	ug/sample	Naphtha (Coal Tar)



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RMT - GREENVILLE

May 9, 2001

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PROJ 7124307  
MEDLEYFARMSVE

Lab#	Field#	Value	Unit	Analyte
886623	VM304DEEP			Solvent Scan
		76	ug/sample	Trichloroethylene
		14	ug/sample	Perchloroethylene
		40	ug/sample	Ethylene Dichloride
		<=2.4	ug/sample	Petroleum Distillates
		ND <1.2	ug/sample	Naphtha (Coal Tar)
886624	VE301			Solvent Scan
		ND <4.8	ug/sample	Trichloroethylene
		ND <6.0	ug/sample	Perchloroethylene
		ND <3.9	ug/sample	Ethylene Dichloride
		ND <1.2	ug/sample	Petroleum Distillates
		ND <1.2	ug/sample	Naphtha (Coal Tar)
886625	VE302			Solvent Scan
		ND <4.8	ug/sample	Trichloroethylene
		ND <6.0	ug/sample	Perchloroethylene
		15	ug/sample	Ethylene Dichloride
		ND <1.2	ug/sample	Petroleum Distillates
		ND <1.2	ug/sample	Naphtha (Coal Tar)
886626	VE303			Solvent Scan
		22	ug/sample	Trichloroethylene
		18	ug/sample	Perchloroethylene
		287	ug/sample	Ethylene Dichloride
		ND <1.2	ug/sample	Petroleum Distillates
		ND <1.2	ug/sample	Naphtha (Coal Tar)
886627	VE304			Solvent Scan
		230	ug/sample	Trichloroethylene
		127	ug/sample	Perchloroethylene
		496	ug/sample	Ethylene Dichloride
		ND <1.2	ug/sample	Petroleum Distillates
		ND <1.2	ug/sample	Naphtha (Coal Tar)



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RMT - GREENVILLE

May 9, 2001

page 4

PROJ 7124307  
MEDLEYFARMSVE

Report contains 4 page(s).

If you have any questions about these results, please call the lab at  
(800) 446-0403

Steve Strelbel, Organic Supervisor

Anh Tram Nguyen



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May 9, 2001

42

KAREN BROOKS/DAVID ROOS  
RMT - GREENVILLE  
100 VERDAE BLVD  
PO BOX 16778  
GREENVILLE SC 29606-6778

## GENERAL SOLVENTS

These samples are analyzed using a method based on OSHA 7.

The collection media is a SMALL, LARGE or JUMBO Activated Charcoal tube.

Front and back sections of the tube are separately desorbed in 1 ml for SMALL tubes, 3 ml for LARGE tubes or 5 or 10 ml for JUMBO tubes of Carbon Disulfide for 30 minutes prior to analysis.

The samples are run on a Hewlett-Packard Gas Chromatograph equipped with an FID. The Primary and Confirming columns were chosen from the following:

SP-1000 Capillary  
Nukol Capillary  
Carbopack C C/0.1% SP-1000  
VoCol 105M Capillary  
HP-5 Capillary  
Supelcowax-10 Capillary

Samples may also have been confirmed on a Model 5972 Hewlett-Packard Gas Chromatograph Mass-Selective Detector containing a Nukol Capillary.

Minimum Detection Limits are specific for each substance.

Anh Tram Nguyen

Analyst

Steve Strebler

Organic Supervisor



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Madison, WI 53718  
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University of Wisconsin

## LABORATORY QUALITY CONTROL REPORT

Chemist Initials: ATN      Analysis Date: 05 - 02 - 01      Equipment Code: 109F  
Equipment Description: HP 5890E GC (Front)

The following samples were analyzed for QUALITY COMPLIANCE along with normal FIELD samples.

These results meet WOHL Lab Quality Control criteria.

----- CORRECT -----

REPORTED VALUES ARE CORRECT FOR SAMPLES: 88525 AND 88526  
Results are within 1 standard deviation.

Q-C Sample#	Reported Value(R)	Actual Value(A)	Units	Ratio (R/A)	Std Dev	S-Code	Substance Name
88525	762.900	791.000	ug/sam	.9645	1	40	Acetone on charcoal
88526	2454.900	2373.000	ug/sam	1.0345	1	40	Acetone on charcoal

The Quality Control limits are calculated based on 1, 2, and 3 STANDARD DEVIATIONS derived from historical data for a particular analyte. The MEAN values are adjusted to 1 in order to avoid any positive or negative bias.

### KEY : COLUMN HEADINGS

- Q-C Sample# : Laboratory prepared Quality Control sample number.  
Reported Value : Analyst's results.  
Actual Value : Amount of analyte applied to the QC sample.  
Ratio : Ratio of Reported/Actual.  
Std Dev : Number of Standard Deviations from the MEAN value.  
S-Code : Substance (analyte) code.

## WOHL Study Limits (ug/sample)

Analyte	MDL	MQL
Trichloroethylene	4.8	9.9
Perchloroethylene	6	12
Ethylene Dichloride	3.9	7.8
Petroleum Distillates	1.2	2.4
Naphtha (Coal Tar)	1.2	2.4



# CHAIN OF CUSTODY RECORD

No 070234

100 Verdae Boulevard, P.O. Box 16778 • Greenville, SC 29606-6778 • Phone (864) 281-0030 • Fax (864) 281-0288

Project No.	Project/Client:
71243.07	MEDLEY FARM (SVE)
Project Manager/Contact Person:	
KAREN BROOKS / DAVID Rocs	

Lab No.	Yr. 01	Date	Time	Sample Station ID	Total Number of Containers	MATRIX	Analyses Requested												Comments:
							1	2	3	4	5	6	7	8	9	10	11	12	
		4/30	11:30	STACK 043001	1	CT	1												ALL SAMPLE TAKEN
			11:40	DP 2-1	1			1											WITH 75 STROKES.
			11:50	DP 3-1	1				1										
			12:00	DP 3-2	1				1										C.T. = CHARCOAL TUBE
			12:10	VM - 301 SHALLOW	1				1										
			12:20	VM - 301 DEEP	1				1										
			12:30	VM - 302 SHALLOW	1				1										
			12:40	VM - 302 DEEP	1				1										
			12:50	VM - 303 SHALLOW	1				1										
		4/30	13:00	VM - 303 DEEP	1				1										

## SPECIAL INSTRUCTIONS

# 65009394 - 472

SAMPLER Relinquished by (Sig.)	Date/Time	Received by (Sig.)	Date/Time	HAZARDS ASSOCIATED WITH SAMPLES	Turn Around (circle one)	Rush
Neal Sunday 5/2/01 1700	AIRBORNE #				<input checked="" type="radio"/> Normal	<input type="radio"/> Rush
Relinquished by (Sig.)	Date/Time	Received by (Sig.)	Date/Time		<input type="checkbox"/> Flammable	<input type="checkbox"/> Corrosive
Relinquished by (Sig.)	Date/Time	Received by (Sig.)	Date/Time	<input type="checkbox"/> Highly Toxic	<input type="checkbox"/> Other (list)	(For Lab Use Only)
Custody Seal: Present/Absent	Intact/Not Intact	Seal #'s			Receipt Temp: Temp Blank Y N	Receipt pH (Wet/Metals)



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March 7, 2001

KAREN BROOKS/DAVID ROOS  
RMT - GREENVILLE  
100 VERDAE BLVD  
PO BOX 16778  
GREENVILLE SC 29606-6778

Company #: 42

PROJ 7124302  
MEDLEY FARM

The results for the samples received by the lab on 03/01/01  
are as follows:

Lab#	Field#	Value	Unit	Analyte
875361	VM303SHALLOW1			Solvent Scan
		ND <2.1	ug/sample	Tetrahydrofuran
		ND <4.8	ug/sample	Trichloroethylene
		20	ug/sample	Perchloroethylene
		ND <3.9	ug/sample	Ethylene Dichloride
		ND <1.2	ug/sample	Petroleum Distillates
875362	VM303DEEP2			Solvent Scan
		<=4.2	ug/sample	Tetrahydrofuran
		ND <4.8	ug/sample	Trichloroethylene
		138	ug/sample	Perchloroethylene
		ND <3.9	ug/sample	Ethylene Dichloride
		ND <1.2	ug/sample	Petroleum Distillates
875363	VM302SHALLOW3			Solvent Scan
		ND <2.1	ug/sample	Tetrahydrofuran
		ND <4.8	ug/sample	Trichloroethylene
		ND <6.0	ug/sample	Perchloroethylene
		ND <3.9	ug/sample	Ethylene Dichloride
		ND <1.2	ug/sample	Petroleum Distillates
875364	VM302DEEP4			Solvent Scan
		<=4.2	ug/sample	Tetrahydrofuran
		ND <4.8	ug/sample	Trichloroethylene
		34	ug/sample	Perchloroethylene
		ND <3.9	ug/sample	Ethylene Dichloride
		ND <1.2	ug/sample	Petroleum Distillates
875365	VM301SHALOW5			Solvent Scan
		ND <2.1	ug/sample	Tetrahydrofuran
		ND <4.8	ug/sample	Trichloroethylene
		ND <6.0	ug/sample	Perchloroethylene
		ND <3.9	ug/sample	Ethylene Dichloride
		ND <1.2	ug/sample	Petroleum Distillates



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RMT - GREENVILLE

March 7, 2001

page 2

PROJ 7124302  
MEDLEY FARM

Lab#	Field#	Value	Unit	Analyte
875366	VM301DEEP6			Solvent Scan
		ND <2.1	ug/sample	Tetrahydrofuran
		<=9.9	ug/sample	Trichloroethylene
		<=12	ug/sample	Perchloroethylene
		<=7.8	ug/sample	Ethylene Dichloride
		ND <1.2	ug/sample	Petroleum Distillates
875367	VM304SHALLOW7			Solvent Scan
		ND <2.1	ug/sample	Tetrahydrofuran
		<=9.9	ug/sample	Trichloroethylene
		ND <6.0	ug/sample	Perchloroethylene
		92	ug/sample	Ethylene Dichloride
		ND <1.2	ug/sample	Petroleum Distillates
875368	VM304DEEP8			Solvent Scan
		7.1	ug/sample	Tetrahydrofuran
		ND <4.8	ug/sample	Trichloroethylene
		ND <6.0	ug/sample	Perchloroethylene
		<=7.8	ug/sample	Ethylene Dichloride
		ND <1.2	ug/sample	Petroleum Distillates
875369	VE3029			Solvent Scan
		16	ug/sample	Tetrahydrofuran
		<=9.9	ug/sample	Trichloroethylene
		ND <6.0	ug/sample	Perchloroethylene
		ND <3.9	ug/sample	Ethylene Dichloride
		ND <1.2	ug/sample	Petroleum Distillates
875370	VE30310			Solvent Scan
		ND <2.1	ug/sample	Tetrahydrofuran
		65	ug/sample	Trichloroethylene
		16	ug/sample	Perchloroethylene
		102	ug/sample	Ethylene Dichloride
		ND <1.2	ug/sample	Petroleum Distillates
875371	VE30111			Solvent Scan
		ND <2.1	ug/sample	Tetrahydrofuran
		ND <4.8	ug/sample	Trichloroethylene
		ND <6.0	ug/sample	Perchloroethylene
		<=7.8	ug/sample	Ethylene Dichloride
		ND <1.2	ug/sample	Petroleum Distillates



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RMT - GREENVILLE

March 7, 2001

page 3

PROJ 7124302  
MEDLEY FARM

Lab#	Field#	Value	Unit	Analyte
875372	VE30412			Solvent Scan
	ND <2.1	ug/sample		Tetrahydrofuran
	245	ug/sample		Trichloroethylene
	146	ug/sample		Perchloroethylene
	540	ug/sample		Ethylene Dichloride
	ND <1.2	ug/sample		Petroleum Distillates
875373	DP2113			Solvent Scan
	ND <2.1	ug/sample		Tetrahydrofuran
	11	ug/sample		Trichloroethylene
	25	ug/sample		Perchloroethylene
	ND <3.9	ug/sample		Ethylene Dichloride
	ND <1.2	ug/sample		Petroleum Distillates
875374	DP3114			Solvent Scan
	ND <2.1	ug/sample		Tetrahydrofuran
	60	ug/sample		Trichloroethylene
	ND <6.0	ug/sample		Perchloroethylene
	82	ug/sample		Ethylene Dichloride
	ND <1.2	ug/sample		Petroleum Distillates
875375	DP3215			Solvent Scan
	ND <2.1	ug/sample		Tetrahydrofuran
	73	ug/sample		Trichloroethylene
	18	ug/sample		Perchloroethylene
	15	ug/sample		Ethylene Dichloride
	ND <1.2	ug/sample		Petroleum Distillates
875376	STACK16			Solvent Scan
	ND <2.1	ug/sample		Tetrahydrofuran
	12	ug/sample		Trichloroethylene
	<=12	ug/sample		Perchloroethylene
	23	ug/sample		Ethylene Dichloride
	ND <1.2	ug/sample		Petroleum Distillates



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RMT - GREENVILLE

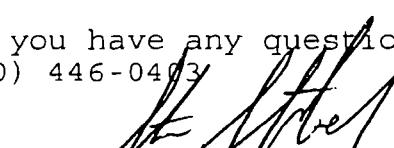
March 7, 2001

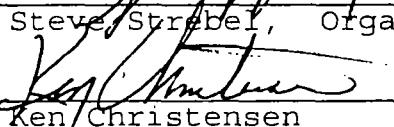
page 4

PROJ 7124302  
MEDLEY FARM

Report contains 4 page(s).

If you have any questions about these results, please call the lab at  
(800) 446-0403

  
\_\_\_\_\_  
Steve Strelzel, Organic Supervisor

  
\_\_\_\_\_  
Ken Christensen



## **CHAIN OF CUSTODY RECORD**

Nº 067160

100 Verdae Boulevard, P.O. Box 16778 • Greenville, SC 29606-6778 • Phone (864) 281-0030 • Fax (864) 281-0288

Project No. 71243.02	Project/Client: MEDLEY FARM (SVE SAMPLING)	
Project Manager/Contact Person: KAREN Brooks / DAVID Roos		Number trainers

**SPECIAL INSTRUCTIONS**

SAMPLER Relinquished by (Sig.)	Date/Time	Received by (Sig.)	Date/Time	HAZARDS ASSOCIATED WITH SAMPLES <input type="checkbox"/> Flammable <input type="checkbox"/> Corrosive <input type="checkbox"/> Highly Toxic <input type="checkbox"/> Other (list) _____	Turn Around (circle one)	<input checked="" type="radio"/> Normal	Rush	
Neal Dunlap 2/28/01 1700		AIRBORNET# 65009311-172			Report Due _____			
Relinquished by (Sig.)	Date/Time	Received by (Sig.)	Date/Time		(For Lab Use Only)			
		Amesbury 3-1-01		Receipt Temp:	Receipt pH			
Relinquished by (Sig.)	Date/Time	Received by (Sig.)	Date/Time	Temp Blank	Y	N	(Wet/Metals)	
Custody Seal: Present/Absent Intact/Not Intact Seal #'s								



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University of Wisconsin

March 7, 2001

42

KAREN BROOKS/DAVID ROOS  
RMT - GREENVILLE  
100 VERDAE BLVD  
PO BOX 16778  
GREENVILLE SC 29606-6778

## GENERAL SOLVENTS

These samples are analyzed using a method based on OSHA 7.

The collection media is a SMALL, LARGE or JUMBO Activated Charcoal tube.

Front and back sections of the tube are separately desorbed in 1 ml for SMALL tubes, 3 ml for LARGE tubes or 5 or 10 ml for JUMBO tubes of Carbon Disulfide for 30 minutes prior to analysis.

The samples are run on a Hewlett-Packard Gas Chromatograph equipped with an FID. The Primary and Confirming columns were chosen from the following:

SP-1000 Capillary  
Nukol Capillary  
Carbopack C C/0.1% SP-1000  
VoCol 105M Capillary  
HP-5 Capillary  
Supelcowax-10 Capillary

Samples may also have been confirmed on a Model 5972 Hewlett-Packard Gas Chromatograph Mass-Selective Detector containing a Nukol Capillary.

Minimum Detection Limits are specific for each substance.

Ken Christensen

Analyst

Steve Strebler

Organic Supervisor



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Madison, WI 53718  
Fax: (608) 224-6213

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University of Wisconsin

## LABORATORY QUALITY CONTROL REPORT

Chemist Initials: KMC      Analysis Date: 03 - 01 - 01      Equipment Code: 108F  
Equipment Description: HP GC SERIES II (F-FRONT)

The following samples were analyzed for QUALITY COMPLIANCE along with normal FIELD samples.

These results meet WOHL Lab Quality Control criteria.

----- CORRECT -----

REPORTED VALUES ARE CORRECT FOR SAMPLES: 86195 AND 86196  
Results are within 1 standard deviation.

Q-C Sample#	Reported Value(R)	Actual Value(A)	Units	Ratio (R/A)	Std Dev	S-Code	Substance Name
86195	2720.000	2727.000	ug/sam	.9974	1	2280	Styrene (Phenylethylene)
86196	3651.000	3636.000	ug/sam	1.0041	1	2280	Styrene (Phenylethylene)

The Quality Control limits are calculated based on 1, 2, and 3 STANDARD DEVIATIONS derived from historical data for a particular analyte. The MEAN values are adjusted to 1 in order to avoid any positive or negative bias.

### KEY : COLUMN HEADINGS

- Q-C Sample# : Laboratory prepared Quality Control sample number.  
Reported Value : Analyst's results.  
Actual Value : Amount of analyte applied to the QC sample.  
Ratio : Ratio of Reported/Actual.  
Std Dev : Number of Standard Deviations from the MEAN value.  
S-Code : Substance (analyte) code.

## WOHL Study Limits (ug/sample)

Analyte	MDL	MQL
Tetrahydrofuran	2.1	4.2
Trichloroethylene	4.8	9.9
Perchloroethylene	6	12
Ethylene Dichloride	3.9	7.8
Petroleum Distillates	1.2	2.4

# **Appendix E**

## **Groundwater Analytical Laboratory Reports**

---

copy: B. Rowan, file

ret. 2003

Project Name: MEDLEY FARM

Project Number: 71243.07

RMT - GREENVILLE

ATTN: *Marc Bailey*  
100 VERDAE BLVD (29607)

GREENVILLE

SC 29606

Attached are the following for Batch Number: 914409

- Organic
- Inorganic
- QC Data
- Diskette

Ship By:  First Class Mail  FedEx

Priority Mail  Other: \_\_\_\_\_

Comments:

QC-WMB 1-8-02: HT, temp, COC, method, dls ✓

TBUK, FBUK ✓

Level 3 QC ✓

[REDACTED]

[REDACTED]

[REDACTED]



# CHAIN OF CUSTODY RECORD

No 73473

100 Verdae Boulevard, P.O. Box 16778 • Greenville, SC 29606-6778 • Phone (864) 281-0030 • Fax (864) 281-0288

Project No. 71243.07	Project/Client: Medley Farm	Total Number Of Containers	MATRIX
Project Manager/Contact Person: Steve Webb / Beth Rowan			

		Filtered (Yes/No)	Preserved (Code)										
		Analyses Requested		VOC Method		827398179046		N		E			
Lab No.	Yr. 01												
914409	Date	Time	Sample Station ID	Total Number Of Containers	MATRIX								
-001	—	—	TBLK-01401	3	DI	X							
-002	12-11	1045	A-1	3	GW	X							
-003	1105	A-2		3	—	X							
-004	1120	A-3		3	—	X							
-005	1140	A-4		3	—	X							
-006	1320	A-5		3	—	X							
-007	1340	A-6		3	—	X							
-008	1400	A-7		3	—	X							
-009	1425	B-1		3	—	X							
-010	1445	B-2		3	—	X							

## SPECIAL INSTRUCTIONS

827398179046

SAMPLER Relinquished by (Sig.) 	Date/Time 12-14-01	Received by (Sig.) FedEx 12-14-01	Date/Time 12-14-01	HAZARDS ASSOCIATED WITH SAMPLES	Turn Around (circle one) Normal	Rush
Relinquished by (Sig.) Fed Ex	Date/Time 12/15/01 0930	Received by (Sig.) 	Date/Time 12/15/01 0930	<input type="checkbox"/> Flammable <input type="checkbox"/> Corrosive <input checked="" type="checkbox"/> Highly Toxic <input type="checkbox"/> Other (list) _____	Report Due (For Lab Use Only)	
Relinquished by (Sig.)	Date/Time	Received by (Sig.)	Date/Time		Receipt Temp: Temp Blank Y N	Receipt pH (Wet/Metals) N/A
Custody Seal: Present/Absent Intact/Not Intact	Seal #'s				2 °C ROI	



# CHAIN OF CUSTODY RECORD

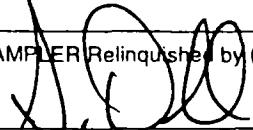
No 73475

100 Verdae Boulevard, P.O. Box 16778 • Greenville, SC 29606-6778 • Phone (864) 281-0030 • Fax (864) 281-0288

Project No. 71243.07	Project/Client: Medley Farm	Total Number Of Containers	MATRIX
Project Manager/Contact Person: Steve Webb / Beth Rowan			

Lab No.	Yr.	Date	Time	Sample Station ID	Total Number Of Containers	MATRIX	Analyses Requested		Comments:
							Filtered (Yes/No)	Preserved (Code)	
914409	01						N	E	
021	12/13	1005		BW-201	3	GW	X		
022		1040		BW-202	3	/	X		
023		1105		MW4-2	3	/	X		
024		1135		SW-101	3	/	X		
025		1200		SW-102	3	/	X		
026-040	03/01	1335		DP3-1	6	/	X		MS/MSD (3 extra vials)
027		1420		MW4-1	3	/	X		
028		1510		MW-3D	3	/	X		
029	12/14	0940		FBLK-01402	3	DI	X		
030	—	—		DU-01402	3	GW	X		

## SPECIAL INSTRUCTIONS

SAMPLER Relinquished by (Sig.)	Date/Time	Received by (Sig.)	Date/Time	HAZARDS ASSOCIATED WITH SAMPLES	Turn Around (circle one)	Normal	Rush	
 12-14-01		FedEx 12-14-01			Report Due _____			
Relinquished by (Sig.)	Date/Time	Received by (Sig.)	Date/Time		(For Lab Use Only)			
Fed Ex	12/15/01 0930	 12/15/01 0930		<input type="checkbox"/> Flammable	Receipt Temp:			
Relinquished by (Sig.)	Date/Time	Received by (Sig.)	Date/Time	<input type="checkbox"/> Corrosive	Temp Blank Y	N	Receipt pH (Wet/Metals)	
				<input type="checkbox"/> Highly Toxic			NA	
				<input type="checkbox"/> Other (list) _____	2° 107			
Custody Seal: Present/ <u>Absent</u> Intact/Not Intact Seal #'								

**Corporate Office & Laboratory**  
1241 Bellevue Street  
Green Bay, WI 54302  
920-469-2436 • FAX: 920-469-8827  
800-7-ENCHEM



**Madison Office & Laboratory**  
525 Science Drive  
Madison, WI 53711  
608-232-3300 • FAX: 608-233-0502  
888-5-ENCHEM

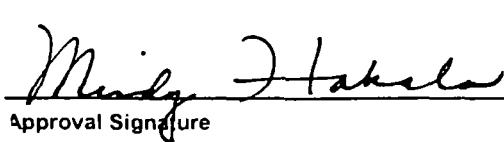
### - Analytical Report -

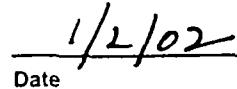
Project Name : MEDLEY FARM  
Project Number : 71243.07

Client : RMT - GREENVILLE  
Report Date : 1/2/2002  
WI DNR LAB ID : 113172950

Lab Sample No.	Field ID	Collection Date	Lab Sample No.	Field ID	Collection Date
914409-001	TBLK-01401	12/11/2001	914409-026	DP3-1	12/13/2001
914409-002	A-1	12/11/2001	914409-027	MW4-1	12/13/2001
914409-003	A-2	12/11/2001	914409-028	MW-3D	12/13/2001
914409-004	A-3	12/11/2001	914409-029	FBLK-01402	12/14/2001
914409-005	A-4	12/11/2001	914409-030	DU-01402	
914409-006	A-5	12/11/2001	914409-031	MLW1-1	12/14/2001
914409-007	A-6	12/11/2001	914409-032	MLW1-2	12/14/2001
914409-008	A-7	12/11/2001	914409-033	MLW1-3	12/14/2001
914409-009	B-1	12/11/2001	914409-034	MLW3-1	12/14/2001
914409-010	B-2	12/11/2001	914409-035	MLW3-2	12/14/2001
914409-011	B-3	12/11/2001	914409-036	MLW3-3	12/14/2001
914409-012	B-4	12/11/2001			
914409-013	BW-108	12/12/2001			
914409-014	MW2-1	12/12/2001			
914409-015	MW2-2	12/12/2001			
914409-016	BW-3	12/12/2001			
914409-017	BW-110	12/12/2001			
914409-018	BW-105	12/12/2001			
914409-019	FBLK-01401	12/13/2001			
914409-020	DU-01401				
914409-021	BW-201	12/13/2001			
914409-022	BW-202	12/13/2001			
914409-023	MW4-2	12/13/2001			
914409-024	SW-101	12/13/2001			
914409-025	SW-102	12/13/2001			

I certify that the data contained in this Final Report has been generated and reviewed in accordance with approved methods and Laboratory Standard Operating Procedure. Exceptions, if any, are discussed in the accompanying sample narrative. Release of this final report is authorized by Laboratory management, as is verified by the following signature.

  
Approval Signature

  
Date

**- Analytical Report -**

Project Name : MEDLEY FARM

Submitter : RMT - GREENVILLE

Project Number : 71243.07

Report Date : 1/2/2002

Field ID : TBLK-01401

Collection Date : 12/11/2001

Lab Sample Number : 914409-001

Matrix Type : BLANK

Lab Project Number : 914409

WI DNR LAB ID : 113172950

**Volatile Organic Results**

**SPECIAL VOLATILE LIST - WATER**

Prep Method: SW846 5030

Analyte	Result	EQL	Units	Code	Analysis Date	Analysis Method
1,1,1-Trichloroethane	< 1.0	1.0	ug/L	SUB2	12/23/2001	SW846 8260B
1,1,2-Trichloroethane	< 1.0	1.0	ug/L	SUB2	12/23/2001	SW846 8260B
1,1-Dichloroethane	< 1.0	1.0	ug/L	SUB2	12/23/2001	SW846 8260B
1,1-Dichloroethene	< 1.0	1.0	ug/L	SUB2	12/23/2001	SW846 8260B
1,2-Dichloroethane	< 1.0	1.0	ug/L	SUB2	12/23/2001	SW846 8260B
2-Butanone	< 5.0	5.0	ug/L	SUB2	12/23/2001	SW846 8260B
Acetone	< 5.0	5.0	ug/L	SUB2	12/23/2001	SW846 8260B
Benzene	< 1.0	1.0	ug/L	SUB2	12/23/2001	SW846 8260B
Chloroform	< 1.0	1.0	ug/L	SUB2	12/23/2001	SW846 8260B
Chloromethane	< 1.0	1.0	ug/L	SUB2	12/23/2001	SW846 8260B
cis-1,2-Dichloroethene	< 1.0	1.0	ug/L	SUB2	12/23/2001	SW846 8260B
Methylene chloride	< 1.0	1.0	ug/L	SUB2	12/23/2001	SW846 8260B
Tetrachloroethene	< 1.0	1.0	ug/L	SUB2	12/23/2001	SW846 8260B
trans-1,2-Dichloroethene	< 1.0	1.0	ug/L	SUB2	12/23/2001	SW846 8260B
Trichloroethene	< 1.0	1.0	ug/L	SUB2	12/23/2001	SW846 8260B

**- Analytical Report -**

Project Name : MEDLEY FARM

Submitter : RMT - GREENVILLE

Project Number : 71243.07

Report Date : 1/2/2002

Field ID : A-1

Collection Date : 12/11/2001

Lab Sample Number : 914409-002

Matrix Type : GROUNDWATER

Lab Project Number : 914409

WI DNR LAB ID : 113172950

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**Volatile Organic Results**

SPECIAL VOLATILE LIST - WATER

Prep Method: SW846 5030

Analyte	Result	EQL	Units	Code	Analysis Date	Analysis Method
1,1,1-Trichloroethane	< 1.0	1.0	ug/L	SUB2	12/23/2001	SW846 8260B
1,1,2-Trichloroethane	< 1.0	1.0	ug/L	SUB2	12/23/2001	SW846 8260B
1,1-Dichloroethane	< 1.0	1.0	ug/L	SUB2	12/23/2001	SW846 8260B
1,1-Dichloroethene	< 1.0	1.0	ug/L	SUB2	12/23/2001	SW846 8260B
1,2-Dichloroethane	< 1.0	1.0	ug/L	SUB2	12/23/2001	SW846 8260B
2-Butanone	< 5.0	5.0	ug/L	SUB2	12/23/2001	SW846 8260B
Acetone	< 5.0	5.0	ug/L	SUB2	12/23/2001	SW846 8260B
Benzene	< 1.0	1.0	ug/L	SUB2	12/23/2001	SW846 8260B
Chloroform	3.0	1.0	ug/L	SUB2	12/23/2001	SW846 8260B
Chloromethane	< 1.0	1.0	ug/L	SUB2	12/23/2001	SW846 8260B
cis-1,2-Dichloroethene	1.5	1.0	ug/L	SUB2	12/23/2001	SW846 8260B
Methylene chloride	< 1.0	1.0	ug/L	SUB2	12/23/2001	SW846 8260B
Tetrachloroethene	8.9	1.0	ug/L	SUB2	12/23/2001	SW846 8260B
trans-1,2-Dichloroethene	< 1.0	1.0	ug/L	SUB2	12/23/2001	SW846 8260B
Trichloroethene	33	1.0	ug/L	SUB2	12/23/2001	SW846 8260B

**- Analytical Report -**

Project Name : MEDLEY FARM

Submitter : RMT - GREENVILLE

Project Number : 71243.07

Report Date : 1/2/2002

Field ID : A-2

Collection Date : 12/11/2001

Lab Sample Number : 914409-003

Matrix Type : GROUNDWATER

Lab Project Number : 914409

WI DNR LAB ID : 113172950

**Volatile Organic Results**

**SPECIAL VOLATILE LIST - WATER**

Prep Method: SW846 5030

Analyte	Result	EQL	Units	Code	Analysis Date	Analysis Method
1,1,1-Trichloroethane	< 2.5	2.5	ug/L	SUB2	12/24/2001	SW846 8260B
1,1,2-Trichloroethane	3.9	2.5	ug/L	SUB2	12/24/2001	SW846 8260B
1,1-Dichloroethane	< 2.5	2.5	ug/L	SUB2	12/24/2001	SW846 8260B
1,1-Dichloroethene	< 2.5	2.5	ug/L	SUB2	12/24/2001	SW846 8260B
1,2-Dichloroethane	< 2.5	2.5	ug/L	SUB2	12/24/2001	SW846 8260B
2-Butanone	< 12	12	ug/L	SUB2	12/24/2001	SW846 8260B
Acetone	< 12	12	ug/L	SUB2	12/24/2001	SW846 8260B
Benzene	< 2.5	2.5	ug/L	SUB2	12/24/2001	SW846 8260B
Chloroform	23	2.5	ug/L	SUB2	12/24/2001	SW846 8260B
Chloromethane	< 2.5	2.5	ug/L	SUB2	12/24/2001	SW846 8260B
cis-1,2-Dichloroethene	2.5	2.5	ug/L	SUB2	12/24/2001	SW846 8260B
Methylene chloride	< 2.5	2.5	ug/L	SUB2	12/24/2001	SW846 8260B
Tetrachloroethene	94	2.5	ug/L	SUB2	12/24/2001	SW846 8260B
trans-1,2-Dichloroethene	< 2.5	2.5	ug/L	SUB2	12/24/2001	SW846 8260B
Trichloroethene	280	2.5	ug/L	SUB2	12/24/2001	SW846 8260B

**- Analytical Report -**

Project Name : MEDLEY FARM

Submitter : RMT - GREENVILLE

Project Number : 71243.07

Report Date : 1/2/2002

Field ID : A-3

Collection Date : 12/11/2001

Lab Sample Number : 914409-004

Matrix Type : GROUNDWATER

Lab Project Number : 914409

WI DNR LAB ID : 113172950

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**Volatile Organic Results**

**SPECIAL VOLATILE LIST - WATER**

Prep Method: SW846 5030

Analyte	Result	EQL	Units	Code	Analysis Date	Analysis Method
1,1,1-Trichloroethane	< 1.0	1.0	ug/L	SUB2	12/23/2001	SW846 8260B
1,1,2-Trichloroethane	1.1	1.0	ug/L	SUB2	12/23/2001	SW846 8260B
1,1-Dichloroethane	< 1.0	1.0	ug/L	SUB2	12/23/2001	SW846 8260B
1,1-Dichloroethene	2.3	1.0	ug/L	SUB2	12/23/2001	SW846 8260B
1,2-Dichloroethane	< 1.0	1.0	ug/L	SUB2	12/23/2001	SW846 8260B
2-Butanone	< 5.0	5.0	ug/L	SUB2	12/23/2001	SW846 8260B
Acetone	< 5.0	5.0	ug/L	SUB2	12/23/2001	SW846 8260B
Benzene	< 1.0	1.0	ug/L	SUB2	12/23/2001	SW846 8260B
Chloroform	6.6	1.0	ug/L	SUB2	12/23/2001	SW846 8260B
Chloromethane	< 1.0	1.0	ug/L	SUB2	12/23/2001	SW846 8260B
cis-1,2-Dichloroethene	1.7	1.0	ug/L	SUB2	12/23/2001	SW846 8260B
Methylene chloride	< 1.0	1.0	ug/L	SUB2	12/23/2001	SW846 8260B
Tetrachloroethene	21	1.0	ug/L	SUB2	12/23/2001	SW846 8260B
trans-1,2-Dichloroethene	< 1.0	1.0	ug/L	SUB2	12/23/2001	SW846 8260B
Trichloroethene	47	1.0	ug/L	SUB2	12/23/2001	SW846 8260B

**- Analytical Report -**

Project Name : MEDLEY FARM

Submitter : RMT - GREENVILLE

Project Number : 71243.07

Report Date : 1/2/2002

Field ID : A-4

Collection Date : 12/11/2001

Lab Sample Number : 914409-005

Matrix Type : GROUNDWATER

Lab Project Number : 914409

WI DNR LAB ID : 113172950

**Volatile Organic Results**

**SPECIAL VOLATILE LIST - WATER**

Prep Method: SW846 5030

Analyte	Result	EQL	Units	Code	Analysis Date	Analysis Method
1,1,1-Trichloroethane	< 1.0	1.0	ug/L	SUB2	12/23/2001	SW846 8260B
1,1,2-Trichloroethane	< 1.0	1.0	ug/L	SUB2	12/23/2001	SW846 8260B
1,1-Dichloroethane	< 1.0	1.0	ug/L	SUB2	12/23/2001	SW846 8260B
1,1-Dichloroethene	< 1.0	1.0	ug/L	SUB2	12/23/2001	SW846 8260B
1,2-Dichloroethane	< 1.0	1.0	ug/L	SUB2	12/23/2001	SW846 8260B
2-Butanone	< 5.0	5.0	ug/L	SUB2	12/23/2001	SW846 8260B
Acetone	< 5.0	5.0	ug/L	SUB2	12/23/2001	SW846 8260B
Benzene	< 1.0	1.0	ug/L	SUB2	12/23/2001	SW846 8260B
Chloroform	< 1.0	1.0	ug/L	SUB2	12/23/2001	SW846 8260B
Chloromethane	< 1.0	1.0	ug/L	SUB2	12/23/2001	SW846 8260B
cis-1,2-Dichloroethene	< 1.0	1.0	ug/L	SUB2	12/23/2001	SW846 8260B
Methylene chloride	< 1.0	1.0	ug/L	SUB2	12/23/2001	SW846 8260B
Tetrachloroethene	3.0	1.0	ug/L	SUB2	12/23/2001	SW846 8260B
trans-1,2-Dichloroethene	< 1.0	1.0	ug/L	SUB2	12/23/2001	SW846 8260B
Trichloroethene	2.8	1.0	ug/L	SUB2	12/23/2001	SW846 8260B

**- Analytical Report -**

Project Name : MEDLEY FARM

Submitter : RMT - GREENVILLE

Project Number : 71243.07

Report Date : 1/2/2002

Field ID : A-5

Collection Date : 12/11/2001

Lab Sample Number : 914409-006

Matrix Type : GROUNDWATER

Lab Project Number : 914409

WI DNR LAB ID : 113172950

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**Volatile Organic Results**

**SPECIAL VOLATILE LIST - WATER**

Prep Method: SW846 5030

Analyte	Result	EQL	Units	Code	Analysis Date	Analysis Method
1,1,1-Trichloroethane	1.3	1.0	ug/L	SUB2	12/23/2001	SW846 8260B
1,1,2-Trichloroethane	< 1.0	1.0	ug/L	SUB2	12/23/2001	SW846 8260B
1,1-Dichloroethane	< 1.0	1.0	ug/L	SUB2	12/23/2001	SW846 8260B
1,1-Dichloroethene	4.8	1.0	ug/L	SUB2	12/23/2001	SW846 8260B
1,2-Dichloroethane	1.4	1.0	ug/L	SUB2	12/23/2001	SW846 8260B
2-Butanone	< 5.0	5.0	ug/L	SUB2	12/23/2001	SW846 8260B
Acetone	< 5.0	5.0	ug/L	SUB2	12/23/2001	SW846 8260B
Benzene	< 1.0	1.0	ug/L	SUB2	12/23/2001	SW846 8260B
Chloroform	4.9	1.0	ug/L	SUB2	12/23/2001	SW846 8260B
Chloromethane	< 1.0	1.0	ug/L	SUB2	12/23/2001	SW846 8260B
cis-1,2-Dichloroethene	3.5	1.0	ug/L	SUB2	12/23/2001	SW846 8260B
Methylene chloride	< 1.0	1.0	ug/L	SUB2	12/23/2001	SW846 8260B
Tetrachloroethene	23	1.0	ug/L	SUB2	12/23/2001	SW846 8260B
trans-1,2-Dichloroethene	< 1.0	1.0	ug/L	SUB2	12/23/2001	SW846 8260B
Trichloroethene	58	1.0	ug/L	SUB2	12/23/2001	SW846 8260B

**- Analytical Report -**

Project Name : MEDLEY FARM

Submitter : RMT - GREENVILLE

Project Number : 71243.07

Report Date : 1/2/2002

Field ID : A-6

Collection Date : 12/11/2001

Lab Sample Number : 914409-007

Matrix Type : GROUNDWATER

Lab Project Number : 914409

WI DNR LAB ID : 113172950

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**Volatile Organic Results**

**SPECIAL VOLATILE LIST - WATER**

Prep Method: SW846 5030

Analyte	Result	EQL	Units	Code	Analysis Date	Analysis Method
1,1,1-Trichloroethane	< 1.0	1.0	ug/L	SUB2	12/23/2001	SW846 8260B
1,1,2-Trichloroethane	< 1.0	1.0	ug/L	SUB2	12/23/2001	SW846 8260B
1,1-Dichloroethane	< 1.0	1.0	ug/L	SUB2	12/23/2001	SW846 8260B
1,1-Dichloroethene	1.2	1.0	ug/L	SUB2	12/23/2001	SW846 8260B
1,2-Dichloroethane	< 1.0	1.0	ug/L	SUB2	12/23/2001	SW846 8260B
2-Butanone	< 5.0	5.0	ug/L	SUB2	12/23/2001	SW846 8260B
Acetone	< 5.0	5.0	ug/L	SUB2	12/23/2001	SW846 8260B
Benzene	< 1.0	1.0	ug/L	SUB2	12/23/2001	SW846 8260B
Chloroform	< 1.0	1.0	ug/L	SUB2	12/23/2001	SW846 8260B
Chloromethane	< 1.0	1.0	ug/L	SUB2	12/23/2001	SW846 8260B
cis-1,2-Dichloroethene	< 1.0	1.0	ug/L	SUB2	12/23/2001	SW846 8260B
Methylene chloride	< 1.0	1.0	ug/L	SUB2	12/23/2001	SW846 8260B
Tetrachloroethene	2.4	1.0	ug/L	SUB2	12/23/2001	SW846 8260B
trans-1,2-Dichloroethene	< 1.0	1.0	ug/L	SUB2	12/23/2001	SW846 8260B
Trichloroethene	4.1	1.0	ug/L	SUB2	12/23/2001	SW846 8260B

**- Analytical Report -**

Project Name : MEDLEY FARM

Submitter : RMT - GREENVILLE

Project Number : 71243.07

Report Date : 1/2/2002

Field ID : A-7

Collection Date : 12/11/2001

Lab Sample Number : 914409-008

Matrix Type : GROUNDWATER

Lab Project Number : 914409

WI DNR LAB ID : 113172950

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**Volatile Organic Results**

**SPECIAL VOLATILE LIST - WATER**

Prep Method: SW846 5030

Analyte	Result	EQL	Units	Code	Analysis Date	Analysis Method
1,1,1-Trichloroethane	< 1.0	1.0	ug/L	SUB2	12/23/2001	SW846 8260B
1,1,2-Trichloroethane	< 1.0	1.0	ug/L	SUB2	12/23/2001	SW846 8260B
1,1-Dichloroethane	< 1.0	1.0	ug/L	SUB2	12/23/2001	SW846 8260B
1,1-Dichloroethene	5.0	1.0	ug/L	SUB2	12/23/2001	SW846 8260B
1,2-Dichloroethane	< 1.0	1.0	ug/L	SUB2	12/23/2001	SW846 8260B
2-Butanone	< 5.0	5.0	ug/L	SUB2	12/23/2001	SW846 8260B
Acetone	< 5.0	5.0	ug/L	SUB2	12/23/2001	SW846 8260B
Benzene	< 1.0	1.0	ug/L	SUB2	12/23/2001	SW846 8260B
Chloroform	2.0	1.0	ug/L	SUB2	12/23/2001	SW846 8260B
Chloromethane	< 1.0	1.0	ug/L	SUB2	12/23/2001	SW846 8260B
cis-1,2-Dichloroethene	1.6	1.0	ug/L	SUB2	12/23/2001	SW846 8260B
Methylene chloride	< 1.0	1.0	ug/L	SUB2	12/23/2001	SW846 8260B
Tetrachloroethene	30	1.0	ug/L	SUB2	12/23/2001	SW846 8260B
trans-1,2-Dichloroethene	< 1.0	1.0	ug/L	SUB2	12/23/2001	SW846 8260B
Trichloroethene	46	1.0	ug/L	SUB2	12/23/2001	SW846 8260B

**- Analytical Report -**

Project Name : MEDLEY FARM

Submitter : RMT - GREENVILLE

Project Number : 71243.07

Report Date : 1/2/2002

Field ID : B-1

Collection Date : 12/11/2001

Lab Sample Number : 914409-009

Matrix Type : GROUNDWATER

Lab Project Number : 914409

WI DNR LAB ID : 113172950

**Volatile Organic Results**

**SPECIAL VOLATILE LIST - WATER**

Prep Method: SW846 5030

Analyte	Result	EQL	Units	Code	Analysis Date	Analysis Method
1,1,1-Trichloroethane	< 1.0	1.0	ug/L	SUB2	12/23/2001	SW846 8260B
1,1,2-Trichloroethane	1.1	1.0	ug/L	SUB2	12/23/2001	SW846 8260B
1,1-Dichloroethane	< 1.0	1.0	ug/L	SUB2	12/23/2001	SW846 8260B
1,1-Dichloroethene	2.3	1.0	ug/L	SUB2	12/23/2001	SW846 8260B
1,2-Dichloroethane	< 1.0	1.0	ug/L	SUB2	12/23/2001	SW846 8260B
2-Butanone	< 5.0	5.0	ug/L	SUB2	12/23/2001	SW846 8260B
Acetone	< 5.0	5.0	ug/L	SUB2	12/23/2001	SW846 8260B
Benzene	< 1.0	1.0	ug/L	SUB2	12/23/2001	SW846 8260B
Chloroform	9.2	1.0	ug/L	SUB2	12/23/2001	SW846 8260B
Chloromethane	< 1.0	1.0	ug/L	SUB2	12/23/2001	SW846 8260B
cis-1,2-Dichloroethene	< 1.0	1.0	ug/L	SUB2	12/23/2001	SW846 8260B
Methylene chloride	< 1.0	1.0	ug/L	SUB2	12/23/2001	SW846 8260B
Tetrachloroethene	17	1.0	ug/L	SUB2	12/23/2001	SW846 8260B
trans-1,2-Dichloroethene	< 1.0	1.0	ug/L	SUB2	12/23/2001	SW846 8260B
Trichloroethene	32	1.0	ug/L	SUB2	12/23/2001	SW846 8260B

**- Analytical Report -**

Project Name : MEDLEY FARM

Submitter : RMT - GREENVILLE

Project Number : 71243.07

Report Date : 1/2/2002

Field ID : B-2

Collection Date : 12/11/2001

Lab Sample Number : 914409-010

Matrix Type : GROUNDWATER

Lab Project Number : 914409

WI DNR LAB ID : 113172950

**Volatile Organic Results**

**SPECIAL VOLATILE LIST - WATER**

Prep Method: SW846 5030

Analyte	Result	EQL	Units	Code	Analysis Date	Analysis Method
1,1,1-Trichloroethane	< 1.0	1.0	ug/L	SUB2	12/23/2001	SW846 8260B
1,1,2-Trichloroethane	< 1.0	1.0	ug/L	SUB2	12/23/2001	SW846 8260B
1,1-Dichloroethane	< 1.0	1.0	ug/L	SUB2	12/23/2001	SW846 8260B
1,1-Dichloroethene	< 1.0	1.0	ug/L	SUB2	12/23/2001	SW846 8260B
1,2-Dichloroethane	< 1.0	1.0	ug/L	SUB2	12/23/2001	SW846 8260B
2-Butanone	< 5.0	5.0	ug/L	SUB2	12/23/2001	SW846 8260B
Acetone	< 5.0	5.0	ug/L	SUB2	12/23/2001	SW846 8260B
Benzene	< 1.0	1.0	ug/L	SUB2	12/23/2001	SW846 8260B
Chloroform	< 1.0	1.0	ug/L	SUB2	12/23/2001	SW846 8260B
Chloromethane	< 1.0	1.0	ug/L	SUB2	12/23/2001	SW846 8260B
cis-1,2-Dichloroethene	< 1.0	1.0	ug/L	SUB2	12/23/2001	SW846 8260B
Methylene chloride	< 1.0	1.0	ug/L	SUB2	12/23/2001	SW846 8260B
Tetrachloroethene	< 1.0	1.0	ug/L	SUB2	12/23/2001	SW846 8260B
trans-1,2-Dichloroethene	< 1.0	1.0	ug/L	SUB2	12/23/2001	SW846 8260B
Trichloroethene	2.2	1.0	ug/L	SUB2	12/23/2001	SW846 8260B

**- Analytical Report -**

Project Name : MEDLEY FARM

Submitter : RMT - GREENVILLE

Project Number : 71243.07

Report Date : 1/2/2002

Field ID : B-3

Collection Date : 12/11/2001

Lab Sample Number : 914409-011

Matrix Type : GROUNDWATER

Lab Project Number : 914409

WI DNR LAB ID : 113172950

**Volatile Organic Results**

**SPECIAL VOLATILE LIST - WATER**

Prep Method: SW846 5030

Analyte	Result	EQL	Units	Code	Analysis Date	Analysis Method
1,1,1-Trichloroethane	5.2	2.5	ug/L	SUB2	12/24/2001	SW846 8260B
1,1,2-Trichloroethane	< 2.5	2.5	ug/L	SUB2	12/24/2001	SW846 8260B
1,1-Dichloroethane	< 2.5	2.5	ug/L	SUB2	12/24/2001	SW846 8260B
1,1-Dichloroethene	24	2.5	ug/L	SUB2	12/24/2001	SW846 8260B
1,2-Dichloroethane	< 2.5	2.5	ug/L	SUB2	12/24/2001	SW846 8260B
2-Butanone	< 12	12	ug/L	SUB2	12/24/2001	SW846 8260B
Acetone	< 12	12	ug/L	SUB2	12/24/2001	SW846 8260B
Benzene	< 2.5	2.5	ug/L	SUB2	12/24/2001	SW846 8260B
Chloroform	9.1	2.5	ug/L	SUB2	12/24/2001	SW846 8260B
Chloromethane	< 2.5	2.5	ug/L	SUB2	12/24/2001	SW846 8260B
cis-1,2-Dichloroethene	12	2.5	ug/L	SUB2	12/24/2001	SW846 8260B
Methylene chloride	< 2.5	2.5	ug/L	SUB2	12/24/2001	SW846 8260B
Tetrachloroethene	61	2.5	ug/L	SUB2	12/24/2001	SW846 8260B
trans-1,2-Dichloroethene	< 2.5	2.5	ug/L	SUB2	12/24/2001	SW846 8260B
Trichloroethene	280	2.5	ug/L	SUB2	12/24/2001	SW846 8260B

**- Analytical Report -**

Project Name : MEDLEY FARM

Submitter : RMT - GREENVILLE

Project Number : 71243.07

Report Date : 1/2/2002

Field ID : B-4

Collection Date : 12/11/2001

Lab Sample Number : 914409-012

Matrix Type : GROUNDWATER

Lab Project Number : 914409

WI DNR LAB ID : 113172950

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**Volatile Organic Results**

**SPECIAL VOLATILE LIST - WATER**

Prep Method: SW846 5030

Analyte	Result	EQL	Units	Code	Analysis Date	Analysis Method
1,1,1-Trichloroethane	16	1.0	ug/L	SUB2	12/23/2001	SW846 8260B
1,1,2-Trichloroethane	1.2	1.0	ug/L	SUB2	12/23/2001	SW846 8260B
1,1-Dichloroethane	< 1.0	1.0	ug/L	SUB2	12/23/2001	SW846 8260B
1,1-Dichloroethene	36	1.0	ug/L	SUB2	12/23/2001	SW846 8260B
1,2-Dichloroethane	1.5	1.0	ug/L	SUB2	12/23/2001	SW846 8260B
2-Butanone	< 5.0	5.0	ug/L	SUB2	12/23/2001	SW846 8260B
Acetone	< 5.0	5.0	ug/L	SUB2	12/23/2001	SW846 8260B
Benzene	< 1.0	1.0	ug/L	SUB2	12/23/2001	SW846 8260B
Chloroform	30	1.0	ug/L	SUB2	12/23/2001	SW846 8260B
Chloromethane	< 1.0	1.0	ug/L	SUB2	12/23/2001	SW846 8260B
cis-1,2-Dichloroethene	9.3	1.0	ug/L	SUB2	12/23/2001	SW846 8260B
Methylene chloride	< 1.0	1.0	ug/L	SUB2	12/23/2001	SW846 8260B
Tetrachloroethene	64	1.0	ug/L	SUB2	12/23/2001	SW846 8260B
trans-1,2-Dichloroethene	< 1.0	1.0	ug/L	SUB2	12/23/2001	SW846 8260B
Trichloroethene	150	1.0	ug/L	SUB2	12/23/2001	SW846 8260B

**- Analytical Report -**

Project Name : MEDLEY FARM

Submitter : RMT - GREENVILLE

Project Number : 71243.07

Report Date : 1/2/2002

Field ID : BW-108

Collection Date : 12/12/2001

Lab Sample Number : 914409-013

Matrix Type : GROUNDWATER

Lab Project Number : 914409

WI DNR LAB ID : 113172950

**Volatile Organic Results**

**SPECIAL VOLATILE LIST - WATER**

Prep Method: SW846 5030

Analyte	Result	EQL	Units	Code	Analysis Date	Analysis Method
1,1,1-Trichloroethane	< 1.0	1.0	ug/L	SUB2	12/23/2001	SW846 8260B
1,1,2-Trichloroethane	< 1.0	1.0	ug/L	SUB2	12/23/2001	SW846 8260B
1,1-Dichloroethane	< 1.0	1.0	ug/L	SUB2	12/23/2001	SW846 8260B
1,1-Dichloroethene	< 1.0	1.0	ug/L	SUB2	12/23/2001	SW846 8260B
1,2-Dichloroethane	< 1.0	1.0	ug/L	SUB2	12/23/2001	SW846 8260B
2-Butanone	< 5.0	5.0	ug/L	SUB2	12/23/2001	SW846 8260B
Acetone	< 5.0	5.0	ug/L	SUB2	12/23/2001	SW846 8260B
Benzene	< 1.0	1.0	ug/L	SUB2	12/23/2001	SW846 8260B
Chloroform	< 1.0	1.0	ug/L	SUB2	12/23/2001	SW846 8260B
Chloromethane	< 1.0	1.0	ug/L	SUB2	12/23/2001	SW846 8260B
cis-1,2-Dichloroethene	< 1.0	1.0	ug/L	SUB2	12/23/2001	SW846 8260B
Methylene chloride	< 1.0	1.0	ug/L	SUB2	12/23/2001	SW846 8260B
Tetrachloroethene	2.2	1.0	ug/L	SUB2	12/23/2001	SW846 8260B
trans-1,2-Dichloroethene	< 1.0	1.0	ug/L	SUB2	12/23/2001	SW846 8260B
Trichloroethene	3.3	1.0	ug/L	SUB2	12/23/2001	SW846 8260B

**- Analytical Report -**

Project Name : MEDLEY FARM

Submitter : RMT - GREENVILLE

Project Number : 71243.07

Report Date : 1/2/2002

Field ID : MW2-1

Collection Date : 12/12/2001

Lab Sample Number : 914409-014

Matrix Type : GROUNDWATER

Lab Project Number : 914409

WI DNR LAB ID : 113172950

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**Volatile Organic Results**

**SPECIAL VOLATILE LIST - WATER**

Prep Method: SW846 5030

Analyte	Result	EQL	Units	Code	Analysis Date	Analysis Method
1,1,1-Trichloroethane	< 1.0	1.0	ug/L	SUB2	12/23/2001	SW846 8260B
1,1,2-Trichloroethane	< 1.0	1.0	ug/L	SUB2	12/23/2001	SW846 8260B
1,1-Dichloroethane	< 1.0	1.0	ug/L	SUB2	12/23/2001	SW846 8260B
1,1-Dichloroethene	8.8	1.0	ug/L	SUB2	12/23/2001	SW846 8260B
1,2-Dichloroethane	1.8	1.0	ug/L	SUB2	12/23/2001	SW846 8260B
2-Butanone	< 5.0	5.0	ug/L	SUB2	12/23/2001	SW846 8260B
Acetone	< 5.0	5.0	ug/L	SUB2	12/23/2001	SW846 8260B
Benzene	< 1.0	1.0	ug/L	SUB2	12/23/2001	SW846 8260B
Chloroform	1.1	1.0	ug/L	SUB2	12/23/2001	SW846 8260B
Chloromethane	< 1.0	1.0	ug/L	SUB2	12/23/2001	SW846 8260B
cis-1,2-Dichloroethene	1.3	1.0	ug/L	SUB2	12/23/2001	SW846 8260B
Methylene chloride	< 1.0	1.0	ug/L	SUB2	12/23/2001	SW846 8260B
Tetrachloroethene	11	1.0	ug/L	SUB2	12/23/2001	SW846 8260B
trans-1,2-Dichloroethene	< 1.0	1.0	ug/L	SUB2	12/23/2001	SW846 8260B
Trichloroethene	22	1.0	ug/L	SUB2	12/23/2001	SW846 8260B

**- Analytical Report -**

Project Name : MEDLEY FARM

Submitter : RMT - GREENVILLE

Project Number : 71243.07

Report Date : 1/2/2002

Field ID : MW2-2

Collection Date : 12/12/2001

Lab Sample Number : 914409-015

Matrix Type : GROUNDWATER

Lab Project Number : 914409

WI DNR LAB ID : 113172950

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**Volatile Organic Results**

**SPECIAL VOLATILE LIST - WATER**

Prep Method: SW846 5030

Analyte	Result	EQL	Units	Code	Analysis Date	Analysis Method
1,1,1-Trichloroethane	1.0	1.0	ug/L	SUB2	12/23/2001	SW846 8260B
1,1,2-Trichloroethane	< 1.0	1.0	ug/L	SUB2	12/23/2001	SW846 8260B
1,1-Dichloroethane	< 1.0	1.0	ug/L	SUB2	12/23/2001	SW846 8260B
1,1-Dichloroethene	2.1	1.0	ug/L	SUB2	12/23/2001	SW846 8260B
1,2-Dichloroethane	1.1	1.0	ug/L	SUB2	12/23/2001	SW846 8260B
2-Butanone	< 5.0	5.0	ug/L	SUB2	12/23/2001	SW846 8260B
Acetone	< 5.0	5.0	ug/L	SUB2	12/23/2001	SW846 8260B
Benzene	< 1.0	1.0	ug/L	SUB2	12/23/2001	SW846 8260B
Chloroform	5.2	1.0	ug/L	SUB2	12/23/2001	SW846 8260B
Chloromethane	< 1.0	1.0	ug/L	SUB2	12/23/2001	SW846 8260B
cis-1,2-Dichloroethene	3.1	1.0	ug/L	SUB2	12/23/2001	SW846 8260B
Methylene chloride	< 1.0	1.0	ug/L	SUB2	12/23/2001	SW846 8260B
Tetrachloroethene	14	1.0	ug/L	SUB2	12/23/2001	SW846 8260B
trans-1,2-Dichloroethene	< 1.0	1.0	ug/L	SUB2	12/23/2001	SW846 8260B
Trichloroethene	45	1.0	ug/L	SUB2	12/23/2001	SW846 8260B

**- Analytical Report -**

Project Name : MEDLEY FARM

Submitter : RMT - GREENVILLE

Project Number : 71243.07

Report Date : 1/2/2002

Field ID : BW-3

Collection Date : 12/12/2001

Lab Sample Number : 914409-016

Matrix Type : GROUNDWATER

Lab Project Number : 914409

WI DNR LAB ID : 113172950

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**Volatile Organic Results**

**SPECIAL VOLATILE LIST - WATER**

Prep Method: SW846 5030

Analyte	Result	EQL	Units	Code	Analysis Date	Analysis Method
1,1,1-Trichloroethane	< 1.0	1.0	ug/L	SUB2	12/23/2001	SW846 8260B
1,1,2-Trichloroethane	< 1.0	1.0	ug/L	SUB2	12/23/2001	SW846 8260B
1,1-Dichloroethane	< 1.0	1.0	ug/L	SUB2	12/23/2001	SW846 8260B
1,1-Dichloroethene	< 1.0	1.0	ug/L	SUB2	12/23/2001	SW846 8260B
1,2-Dichloroethane	< 1.0	1.0	ug/L	SUB2	12/23/2001	SW846 8260B
2-Butanone	< 5.0	5.0	ug/L	SUB2	12/23/2001	SW846 8260B
Acetone	< 5.0	5.0	ug/L	SUB2	12/23/2001	SW846 8260B
Benzene	< 1.0	1.0	ug/L	SUB2	12/23/2001	SW846 8260B
Chloroform	< 1.0	1.0	ug/L	SUB2	12/23/2001	SW846 8260B
Chloromethane	< 1.0	1.0	ug/L	SUB2	12/23/2001	SW846 8260B
cis-1,2-Dichloroethene	< 1.0	1.0	ug/L	SUB2	12/23/2001	SW846 8260B
Methylene chloride	< 1.0	1.0	ug/L	SUB2	12/23/2001	SW846 8260B
Tetrachloroethene	< 1.0	1.0	ug/L	SUB2	12/23/2001	SW846 8260B
trans-1,2-Dichloroethene	< 1.0	1.0	ug/L	SUB2	12/23/2001	SW846 8260B
Trichloroethene	< 1.0	1.0	ug/L	SUB2	12/23/2001	SW846 8260B

**- Analytical Report -**

Project Name : MEDLEY FARM

Submitter : RMT - GREENVILLE

Project Number : 71243.07

Report Date : 1/2/2002

Field ID : BW-110

Collection Date : 12/12/2001

Lab Sample Number : 914409-017

Matrix Type : GROUNDWATER

Lab Project Number : 914409

WI DNR LAB ID : 113172950

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**Volatile Organic Results**

**SPECIAL VOLATILE LIST - WATER**

Prep Method: SW846 5030

Analyte	Result	EQL	Units	Code	Analysis Date	Analysis Method
1,1,1-Trichloroethane	< 1.0	1.0	ug/L	SUB2	12/23/2001	SW846 8260B
1,1,2-Trichloroethane	< 1.0	1.0	ug/L	SUB2	12/23/2001	SW846 8260B
1,1-Dichloroethane	< 1.0	1.0	ug/L	SUB2	12/23/2001	SW846 8260B
1,1-Dichloroethene	< 1.0	1.0	ug/L	SUB2	12/23/2001	SW846 8260B
1,2-Dichloroethane	< 1.0	1.0	ug/L	SUB2	12/23/2001	SW846 8260B
2-Butanone	< 5.0	5.0	ug/L	SUB2	12/23/2001	SW846 8260B
Acetone	< 5.0	5.0	ug/L	SUB2	12/23/2001	SW846 8260B
Benzene	< 1.0	1.0	ug/L	SUB2	12/23/2001	SW846 8260B
Chloroform	< 1.0	1.0	ug/L	SUB2	12/23/2001	SW846 8260B
Chloromethane	< 1.0	1.0	ug/L	SUB2	12/23/2001	SW846 8260B
cis-1,2-Dichloroethene	< 1.0	1.0	ug/L	SUB2	12/23/2001	SW846 8260B
Methylene chloride	< 1.0	1.0	ug/L	SUB2	12/23/2001	SW846 8260B
Tetrachloroethene	< 1.0	1.0	ug/L	SUB2	12/23/2001	SW846 8260B
trans-1,2-Dichloroethene	< 1.0	1.0	ug/L	SUB2	12/23/2001	SW846 8260B
Trichloroethene	< 1.0	1.0	ug/L	SUB2	12/23/2001	SW846 8260B

**- Analytical Report -**

Project Name : MEDLEY FARM

Submitter : RMT - GREENVILLE

Project Number : 71243.07

Report Date : 1/2/2002

Field ID : BW-105

Collection Date : 12/12/2001

Lab Sample Number : 914409-018

Matrix Type : GROUNDWATER

Lab Project Number : 914409

WI DNR LAB ID : 113172950

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**Volatile Organic Results**

Prep Method: SW846 5030

**SPECIAL VOLATILE LIST - WATER**

Analyte	Result	EQL	Units	Code	Analysis Date	Analysis Method
1,1,1-Trichloroethane	8.5	1.0	ug/L	SUB2	12/23/2001	SW846 8260B
1,1,2-Trichloroethane	< 1.0	1.0	ug/L	SUB2	12/23/2001	SW846 8260B
1,1-Dichloroethane	< 1.0	1.0	ug/L	SUB2	12/23/2001	SW846 8260B
1,1-Dichloroethene	5.3	1.0	ug/L	SUB2	12/23/2001	SW846 8260B
1,2-Dichloroethane	< 1.0	1.0	ug/L	SUB2	12/23/2001	SW846 8260B
2-Butanone	< 5.0	5.0	ug/L	SUB2	12/23/2001	SW846 8260B
Acetone	< 5.0	5.0	ug/L	SUB2	12/23/2001	SW846 8260B
Benzene	< 1.0	1.0	ug/L	SUB2	12/23/2001	SW846 8260B
Chloroform	5.9	1.0	ug/L	SUB2	12/23/2001	SW846 8260B
Chloromethane	< 1.0	1.0	ug/L	SUB2	12/23/2001	SW846 8260B
cis-1,2-Dichloroethene	< 1.0	1.0	ug/L	SUB2	12/23/2001	SW846 8260B
Methylene chloride	< 1.0	1.0	ug/L	SUB2	12/23/2001	SW846 8260B
Tetrachloroethene	1.6	1.0	ug/L	SUB2	12/23/2001	SW846 8260B
trans-1,2-Dichloroethene	< 1.0	1.0	ug/L	SUB2	12/23/2001	SW846 8260B
Trichloroethene	1.9	1.0	ug/L	SUB2	12/23/2001	SW846 8260B

**- Analytical Report -**

Project Name : MEDLEY FARM

Submitter : RMT - GREENVILLE

Project Number : 71243.07

Report Date : 1/2/2002

Field ID : FBLK-01401

Collection Date : 12/13/2001

Lab Sample Number : 914409-019

Matrix Type : WATER

Lab Project Number : 914409

WI DNR LAB ID : 113172950

**Volatile Organic Results**

**SPECIAL VOLATILE LIST - WATER**

Prep Method: SW846 5030

Analyte	Result	EQL	Units	Code	Analysis Date	Analysis Method
1,1,1-Trichloroethane	< 1.0	1.0	ug/L	SUB2	12/23/2001	SW846 8260B
1,1,2-Trichloroethane	< 1.0	1.0	ug/L	SUB2	12/23/2001	SW846 8260B
1,1-Dichloroethane	< 1.0	1.0	ug/L	SUB2	12/23/2001	SW846 8260B
1,1-Dichloroethene	< 1.0	1.0	ug/L	SUB2	12/23/2001	SW846 8260B
1,2-Dichloroethane	< 1.0	1.0	ug/L	SUB2	12/23/2001	SW846 8260B
2-Butanone	< 5.0	5.0	ug/L	SUB2	12/23/2001	SW846 8260B
Acetone	< 5.0	5.0	ug/L	SUB2	12/23/2001	SW846 8260B
Benzene	< 1.0	1.0	ug/L	SUB2	12/23/2001	SW846 8260B
Chloroform	< 1.0	1.0	ug/L	SUB2	12/23/2001	SW846 8260B
Chloromethane	< 1.0	1.0	ug/L	SUB2	12/23/2001	SW846 8260B
cis-1,2-Dichloroethene	< 1.0	1.0	ug/L	SUB2	12/23/2001	SW846 8260B
Methylene chloride	< 1.0	1.0	ug/L	SUB2	12/23/2001	SW846 8260B
Tetrachloroethene	< 1.0	1.0	ug/L	SUB2	12/23/2001	SW846 8260B
trans-1,2-Dichloroethene	< 1.0	1.0	ug/L	SUB2	12/23/2001	SW846 8260B
Trichloroethene	< 1.0	1.0	ug/L	SUB2	12/23/2001	SW846 8260B

**- Analytical Report -**

Project Name : MEDLEY FARM

Submitter : RMT - GREENVILLE

Project Number : 71243.07

Report Date : 1/2/2002

Field ID : DU-01401

Collection Date :

Lab Sample Number : 914409-020

Matrix Type : GROUNDWATER

Lab Project Number : 914409

WI DNR LAB ID : 113172950

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**Volatile Organic Results**

SPECIAL VOLATILE LIST - WATER

Prep Method: SW846 5030

Analyte	Result	EQL	Units	Code	Analysis Date	Analysis Method
1,1,1-Trichloroethane	< 1.0	1.0	ug/L	SUB2	12/23/2001	SW846 8260B
1,1,2-Trichloroethane	< 1.0	1.0	ug/L	SUB2	12/23/2001	SW846 8260B
1,1-Dichloroethane	< 1.0	1.0	ug/L	SUB2	12/23/2001	SW846 8260B
1,1-Dichloroethene	< 1.0	1.0	ug/L	SUB2	12/23/2001	SW846 8260B
1,2-Dichloroethane	< 1.0	1.0	ug/L	SUB2	12/23/2001	SW846 8260B
2-Butanone	< 5.0	5.0	ug/L	SUB2	12/23/2001	SW846 8260B
Acetone	< 5.0	5.0	ug/L	SUB2	12/23/2001	SW846 8260B
Benzene	< 1.0	1.0	ug/L	SUB2	12/23/2001	SW846 8260B
Chloroform	< 1.0	1.0	ug/L	SUB2	12/23/2001	SW846 8260B
Chloromethane	< 1.0	1.0	ug/L	SUB2	12/23/2001	SW846 8260B
cis-1,2-Dichloroethene	< 1.0	1.0	ug/L	SUB2	12/23/2001	SW846 8260B
Methylene chloride	< 1.0	1.0	ug/L	SUB2	12/23/2001	SW846 8260B
Tetrachloroethene	< 1.0	1.0	ug/L	SUB2	12/23/2001	SW846 8260B
trans-1,2-Dichloroethene	< 1.0	1.0	ug/L	SUB2	12/23/2001	SW846 8260B
Trichloroethene	< 1.0	1.0	ug/L	SUB2	12/23/2001	SW846 8260B

**- Analytical Report -**

Project Name : MEDLEY FARM

Submitter : RMT - GREENVILLE

Project Number : 71243.07

Report Date : 1/2/2002

Field ID : BW-201

Collection Date : 12/13/2001

Lab Sample Number : 914409-021

Matrix Type : GROUNDWATER

Lab Project Number : 914409

WI DNR LAB ID : 113172950

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**Volatile Organic Results**

SPECIAL VOLATILE LIST - WATER

Prep Method: SW846 5030

Analyte	Result	EQL	Units	Code	Analysis Date	Analysis Method
1,1,1-Trichloroethane	< 1.0	1.0	ug/L	SUB2	12/22/2001	SW846 8260B
1,1,2-Trichloroethane	< 1.0	1.0	ug/L	SUB2	12/22/2001	SW846 8260B
1,1-Dichloroethane	< 1.0	1.0	ug/L	SUB2	12/22/2001	SW846 8260B
1,1-Dichloroethene	< 1.0	1.0	ug/L	SUB2	12/22/2001	SW846 8260B
1,2-Dichloroethane	< 1.0	1.0	ug/L	SUB2	12/22/2001	SW846 8260B
2-Butanone	< 5.0	5.0	ug/L	SUB2	12/22/2001	SW846 8260B
Acetone	< 5.0	5.0	ug/L	SUB2	12/22/2001	SW846 8260B
Benzene	< 1.0	1.0	ug/L	SUB2	12/22/2001	SW846 8260B
Chloroform	< 1.0	1.0	ug/L	SUB2	12/22/2001	SW846 8260B
Chloromethane	< 1.0	1.0	ug/L	SUB2	12/22/2001	SW846 8260B
cis-1,2-Dichloroethene	< 1.0	1.0	ug/L	SUB2	12/22/2001	SW846 8260B
Methylene chloride	< 1.0	1.0	ug/L	SUB2	12/22/2001	SW846 8260B
Tetrachloroethene	2.7	1.0	ug/L	SUB2	12/22/2001	SW846 8260B
trans-1,2-Dichloroethene	< 1.0	1.0	ug/L	SUB2	12/22/2001	SW846 8260B
Trichloroethene	3.9	1.0	ug/L	SUB2	12/22/2001	SW846 8260B

**- Analytical Report -**

Project Name : MEDLEY FARM

Submitter : RMT - GREENVILLE

Project Number : 71243.07

Report Date : 1/2/2002

Field ID : BW-202

Collection Date : 12/13/2001

Lab Sample Number : 914409-022

Matrix Type : GROUNDWATER

Lab Project Number : 914409

WI DNR LAB ID : 113172950

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**Volatile Organic Results**

**SPECIAL VOLATILE LIST - WATER**

Prep Method: SW846 5030

Analyte	Result	EQL	Units	Code	Analysis Date	Analysis Method
1,1,1-Trichloroethane	< 1.0	1.0	ug/L	SUB2	12/22/2001	SW846 8260B
1,1,2-Trichloroethane	< 1.0	1.0	ug/L	SUB2	12/22/2001	SW846 8260B
1,1-Dichloroethane	< 1.0	1.0	ug/L	SUB2	12/22/2001	SW846 8260B
1,1-Dichloroethene	< 1.0	1.0	ug/L	SUB2	12/22/2001	SW846 8260B
1,2-Dichloroethane	< 1.0	1.0	ug/L	SUB2	12/22/2001	SW846 8260B
2-Butanone	< 5.0	5.0	ug/L	SUB2	12/22/2001	SW846 8260B
Acetone	< 5.0	5.0	ug/L	SUB2	12/22/2001	SW846 8260B
Benzene	< 1.0	1.0	ug/L	SUB2	12/22/2001	SW846 8260B
Chloroform	< 1.0	1.0	ug/L	SUB2	12/22/2001	SW846 8260B
Chloromethane	< 1.0	1.0	ug/L	SUB2	12/22/2001	SW846 8260B
cis-1,2-Dichloroethene	< 1.0	1.0	ug/L	SUB2	12/22/2001	SW846 8260B
Methylene chloride	< 1.0	1.0	ug/L	SUB2	12/22/2001	SW846 8260B
Tetrachloroethene	2.2	1.0	ug/L	SUB2	12/22/2001	SW846 8260B
trans-1,2-Dichloroethene	< 1.0	1.0	ug/L	SUB2	12/22/2001	SW846 8260B
Trichloroethene	< 1.0	1.0	ug/L	SUB2	12/22/2001	SW846 8260B

**- Analytical Report -**

Project Name : MEDLEY FARM

Submitter : RMT - GREENVILLE

Project Number : 71243.07

Report Date : 1/2/2002

Field ID : MW4-2

Collection Date : 12/13/2001

Lab Sample Number : 914409-023

Matrix Type : GROUNDWATER

Lab Project Number : 914409

WI DNR LAB ID : 113172950

**Volatile Organic Results**

**SPECIAL VOLATILE LIST - WATER**

Prep Method: SW846 5030

Analyte	Result	EQL	Units	Code	Analysis Date	Analysis Method
1,1,1-Trichloroethane	< 1.0	1.0	ug/L	SUB2	12/22/2001	SW846 8260B
1,1,2-Trichloroethane	< 1.0	1.0	ug/L	SUB2	12/22/2001	SW846 8260B
1,1-Dichloroethane	< 1.0	1.0	ug/L	SUB2	12/22/2001	SW846 8260B
1,1-Dichloroethene	1.4	1.0	ug/L	SUB2	12/22/2001	SW846 8260B
1,2-Dichloroethane	< 1.0	1.0	ug/L	SUB2	12/22/2001	SW846 8260B
2-Butanone	< 5.0	5.0	ug/L	SUB2	12/22/2001	SW846 8260B
Acetone	< 5.0	5.0	ug/L	SUB2	12/22/2001	SW846 8260B
Benzene	< 1.0	1.0	ug/L	SUB2	12/22/2001	SW846 8260B
Chloroform	6.7	1.0	ug/L	SUB2	12/22/2001	SW846 8260B
Chloromethane	< 1.0	1.0	ug/L	SUB2	12/22/2001	SW846 8260B
cis-1,2-Dichloroethene	< 1.0	1.0	ug/L	SUB2	12/22/2001	SW846 8260B
Methylene chloride	< 1.0	1.0	ug/L	SUB2	12/22/2001	SW846 8260B
Tetrachloroethene	28	1.0	ug/L	SUB2	12/22/2001	SW846 8260B
trans-1,2-Dichloroethene	< 1.0	1.0	ug/L	SUB2	12/22/2001	SW846 8260B
Trichloroethene	110	1.0	ug/L	SUB2	12/22/2001	SW846 8260B

**- Analytical Report -**

Project Name : MEDLEY FARM

Submitter : RMT - GREENVILLE

Project Number : 71243.07

Report Date : 1/2/2002

Field ID : SW-101

Collection Date : 12/13/2001

Lab Sample Number : 914409-024

Matrix Type : GROUNDWATER

Lab Project Number : 914409

WI DNR LAB ID : 113172950

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**Volatile Organic Results**

Prep Method: SW846 5030

SPECIAL VOLATILE LIST - WATER

Analyte	Result	EQL	Units	Code	Analysis Date	Analysis Method
1,1,1-Trichloroethane	< 1.0	1.0	ug/L	SUB2	12/22/2001	SW846 8260B
1,1,2-Trichloroethane	< 1.0	1.0	ug/L	SUB2	12/22/2001	SW846 8260B
1,1-Dichloroethane	< 1.0	1.0	ug/L	SUB2	12/22/2001	SW846 8260B
1,1-Dichloroethene	< 1.0	1.0	ug/L	SUB2	12/22/2001	SW846 8260B
1,2-Dichloroethane	< 1.0	1.0	ug/L	SUB2	12/22/2001	SW846 8260B
2-Butanone	< 5.0	5.0	ug/L	SUB2	12/22/2001	SW846 8260B
Acetone	< 5.0	5.0	ug/L	SUB2	12/22/2001	SW846 8260B
Benzene	< 1.0	1.0	ug/L	SUB2	12/22/2001	SW846 8260B
Chloroform	< 1.0	1.0	ug/L	SUB2	12/22/2001	SW846 8260B
Chloromethane	< 1.0	1.0	ug/L	SUB2	12/22/2001	SW846 8260B
cis-1,2-Dichloroethene	< 1.0	1.0	ug/L	SUB2	12/22/2001	SW846 8260B
Methylene chloride	< 1.0	1.0	ug/L	SUB2	12/22/2001	SW846 8260B
Tetrachloroethene	< 1.0	1.0	ug/L	SUB2	12/22/2001	SW846 8260B
trans-1,2-Dichloroethene	< 1.0	1.0	ug/L	SUB2	12/22/2001	SW846 8260B
Trichloroethene	1.1	1.0	ug/L	SUB2	12/22/2001	SW846 8260B

**- Analytical Report -**

Project Name : MEDLEY FARM

Submitter : RMT - GREENVILLE

Project Number : 71243.07

Report Date : 1/2/2002

Field ID : SW-102

Collection Date : 12/13/2001

Lab Sample Number : 914409-025

Matrix Type : GROUNDWATER

Lab Project Number : 914409

WI DNR LAB ID : 113172950

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**Volatile Organic Results**

**SPECIAL VOLATILE LIST - WATER**

Prep Method: SW846 5030

Analyte	Result	EQL	Units	Code	Analysis Date	Analysis Method
1,1,1-Trichloroethane	< 1.0	1.0	ug/L	SUB2	12/22/2001	SW846 8260B
1,1,2-Trichloroethane	< 1.0	1.0	ug/L	SUB2	12/22/2001	SW846 8260B
1,1-Dichloroethane	< 1.0	1.0	ug/L	SUB2	12/22/2001	SW846 8260B
1,1-Dichloroethene	< 1.0	1.0	ug/L	SUB2	12/22/2001	SW846 8260B
1,2-Dichloroethane	< 1.0	1.0	ug/L	SUB2	12/22/2001	SW846 8260B
2-Butanone	< 5.0	5.0	ug/L	SUB2	12/22/2001	SW846 8260B
Acetone	< 5.0	5.0	ug/L	SUB2	12/22/2001	SW846 8260B
Benzene	< 1.0	1.0	ug/L	SUB2	12/22/2001	SW846 8260B
Chloroform	< 1.0	1.0	ug/L	SUB2	12/22/2001	SW846 8260B
Chloromethane	< 1.0	1.0	ug/L	SUB2	12/22/2001	SW846 8260B
cis-1,2-Dichloroethene	< 1.0	1.0	ug/L	SUB2	12/22/2001	SW846 8260B
Methylene chloride	< 1.0	1.0	ug/L	SUB2	12/22/2001	SW846 8260B
Tetrachloroethene	< 1.0	1.0	ug/L	SUB2	12/22/2001	SW846 8260B
trans-1,2-Dichloroethene	< 1.0	1.0	ug/L	SUB2	12/22/2001	SW846 8260B
Trichloroethene	< 1.0	1.0	ug/L	SUB2	12/22/2001	SW846 8260B

**- Analytical Report -**

Project Name : MEDLEY FARM

Submitter : RMT - GREENVILLE

Project Number : 71243.07

Report Date : 1/2/2002

Field ID : DP3-1

Collection Date : 12/13/2001

Lab Sample Number : 914409-026

Matrix Type : GROUNDWATER

Lab Project Number : 914409

WI DNR LAB ID : 113172950

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**Volatile Organic Results**

SPECIAL VOLATILE LIST - WATER

Prep Method: SW846 5030

Analyte	Result	EQL	Units	Code	Analysis Date	Analysis Method
1,1,1-Trichloroethane	12	5.0	ug/L	SUB2	12/22/2001	SW846 8260B
1,1,2-Trichloroethane	< 5.0	5.0	ug/L	SUB2	12/22/2001	SW846 8260B
1,1-Dichloroethane	< 5.0	5.0	ug/L	SUB2	12/22/2001	SW846 8260B
1,1-Dichloroethene	37	5.0	ug/L	SUB2	12/22/2001	SW846 8260B
1,2-Dichloroethane	.7.5	5.0	ug/L	SUB2	12/22/2001	SW846 8260B
2-Butanone	< 25	25	ug/L	SUB2	12/22/2001	SW846 8260B
Acetone	< 25	25	ug/L	SUB2	12/22/2001	SW846 8260B
Benzene	< 5.0	5.0	ug/L	SUB2	12/22/2001	SW846 8260B
Chloroform	78	5.0	ug/L	SUB2	12/22/2001	SW846 8260B
Chloromethane	< 5.0	5.0	ug/L	SUB2	12/22/2001	SW846 8260B
cis-1,2-Dichloroethene	9.5	5.0	ug/L	SUB2	12/22/2001	SW846 8260B
Methylene chloride	9.2	5.0	ug/L	SUB2	12/22/2001	SW846 8260B
Tetrachloroethene	150	5.0	ug/L	SUB2	12/22/2001	SW846 8260B
trans-1,2-Dichloroethene	< 5.0	5.0	ug/L	SUB2	12/22/2001	SW846 8260B
Trichloroethene	390	5.0	ug/L	SUB2	12/22/2001	SW846 8260B

**- Analytical Report -**

Project Name : MEDLEY FARM

Submitter : RMT - GREENVILLE

Project Number : 71243.07

Report Date : 1/2/2002

Field ID : MW4-1

Collection Date : 12/13/2001

Lab Sample Number : 914409-027

Matrix Type : GROUNDWATER

Lab Project Number : 914409

WI DNR LAB ID : 113172950

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**Volatile Organic Results**

**SPECIAL VOLATILE LIST - WATER**

Prep Method: SW846 5030

Analyte	Result	EQL	Units	Code	Analysis Date	Analysis Method
1,1,1-Trichloroethane	1.6	1.0	ug/L	SUB2	12/22/2001	SW846 8260B
1,1,2-Trichloroethane	16	1.0	ug/L	SUB2	12/22/2001	SW846 8260B
1,1-Dichloroethane	< 1.0	1.0	ug/L	SUB2	12/22/2001	SW846 8260B
1,1-Dichloroethene	6.0	1.0	ug/L	SUB2	12/22/2001	SW846 8260B
1,2-Dichloroethane	1.5	1.0	ug/L	SUB2	12/22/2001	SW846 8260B
2-Butanone	< 5.0	5.0	ug/L	SUB2	12/22/2001	SW846 8260B
Acetone	< 5.0	5.0	ug/L	SUB2	12/22/2001	SW846 8260B
Benzene	< 1.0	1.0	ug/L	SUB2	12/22/2001	SW846 8260B
Chloroform	56	1.0	ug/L	SUB2	12/22/2001	SW846 8260B
Chloromethane	< 1.0	1.0	ug/L	SUB2	12/22/2001	SW846 8260B
cis-1,2-Dichloroethene	1.8	1.0	ug/L	SUB2	12/22/2001	SW846 8260B
Methylene chloride	< 1.0	1.0	ug/L	SUB2	12/22/2001	SW846 8260B
Tetrachloroethene	80	1.0	ug/L	SUB2	12/22/2001	SW846 8260B
trans-1,2-Dichloroethene	< 1.0	1.0	ug/L	SUB2	12/22/2001	SW846 8260B
Trichloroethene	200	1.0	ug/L	SUB2	12/22/2001	SW846 8260B

**- Analytical Report -**

Project Name : MEDLEY FARM

Submitter : RMT - GREENVILLE

Project Number : 71243.07

Report Date : 1/2/2002

Field ID : MW-3D

Collection Date : 12/13/2001

Lab Sample Number : 914409-028

Matrix Type : GROUNDWATER

Lab Project Number : 914409

WI DNR LAB ID : 113172950

**Volatile Organic Results**

**SPECIAL VOLATILE LIST - WATER**

Prep Method: SW846 5030

Analyte	Result	EQL	Units	Code	Analysis Date	Analysis Method
1,1,1-Trichloroethane	< 1.0	1.0	ug/L	SUB2	12/22/2001	SW846 8260B
1,1,2-Trichloroethane	< 1.0	1.0	ug/L	SUB2	12/22/2001	SW846 8260B
1,1-Dichloroethane	< 1.0	1.0	ug/L	SUB2	12/22/2001	SW846 8260B
1,1-Dichloroethene	2.3	1.0	ug/L	SUB2	12/22/2001	SW846 8260B
1,2-Dichloroethane	< 1.0	1.0	ug/L	SUB2	12/22/2001	SW846 8260B
2-Butanone	< 5.0	5.0	ug/L	SUB2	12/22/2001	SW846 8260B
Acetone	< 5.0	5.0	ug/L	SUB2	12/22/2001	SW846 8260B
Benzene	< 1.0	1.0	ug/L	SUB2	12/22/2001	SW846 8260B
Chloroform	< 1.0	1.0	ug/L	SUB2	12/22/2001	SW846 8260B
Chloromethane	< 1.0	1.0	ug/L	SUB2	12/22/2001	SW846 8260B
cis-1,2-Dichloroethene	2.9	1.0	ug/L	SUB2	12/22/2001	SW846 8260B
Methylene chloride	< 1.0	1.0	ug/L	SUB2	12/22/2001	SW846 8260B
Tetrachloroethene	38	1.0	ug/L	SUB2	12/22/2001	SW846 8260B
trans-1,2-Dichloroethene	< 1.0	1.0	ug/L	SUB2	12/22/2001	SW846 8260B
Trichloroethene	31	1.0	ug/L	SUB2	12/22/2001	SW846 8260B

**- Analytical Report -**

Project Name : MEDLEY FARM

Submitter : RMT - GREENVILLE

Project Number : 71243.07

Report Date : 1/2/2002

Field ID : FBLK-01402

Collection Date : 12/14/2001

Lab Sample Number : 914409-029

Matrix Type : WATER

Lab Project Number : 914409

WI DNR LAB ID : 113172950

**Volatile Organic Results**

**SPECIAL VOLATILE LIST - WATER**

Prep Method: SW846 5030

Analyte	Result	EQL	Units	Code	Analysis Date	Analysis Method
1,1,1-Trichloroethane	< 1.0	1.0	ug/L	SUB2	12/22/2001	SW846 8260B
1,1,2-Trichloroethane	< 1.0	1.0	ug/L	SUB2	12/22/2001	SW846 8260B
1,1-Dichloroethane	< 1.0	1.0	ug/L	SUB2	12/22/2001	SW846 8260B
1,1-Dichloroethene	< 1.0	1.0	ug/L	SUB2	12/22/2001	SW846 8260B
1,2-Dichloroethane	< 1.0	1.0	ug/L	SUB2	12/22/2001	SW846 8260B
2-Butanone	< 5.0	5.0	ug/L	SUB2	12/22/2001	SW846 8260B
Acetone	< 5.0	5.0	ug/L	SUB2	12/22/2001	SW846 8260B
Benzene	< 1.0	1.0	ug/L	SUB2	12/22/2001	SW846 8260B
Chloroform	< 1.0	1.0	ug/L	SUB2	12/22/2001	SW846 8260B
Chloromethane	< 1.0	1.0	ug/L	SUB2	12/22/2001	SW846 8260B
cis-1,2-Dichloroethene	< 1.0	1.0	ug/L	SUB2	12/22/2001	SW846 8260B
Methylene chloride	< 1.0	1.0	ug/L	SUB2	12/22/2001	SW846 8260B
Tetrachloroethene	< 1.0	1.0	ug/L	SUB2	12/22/2001	SW846 8260B
trans-1,2-Dichloroethene	< 1.0	1.0	ug/L	SUB2	12/22/2001	SW846 8260B
Trichloroethene	< 1.0	1.0	ug/L	SUB2	12/22/2001	SW846 8260B

**- Analytical Report -**

Project Name : MEDLEY FARM

Submitter : RMT - GREENVILLE

Project Number : 71243.07

Report Date : 1/2/2002

Field ID : MLW1-1

Collection Date : 12/14/2001

Lab Sample Number : 914409-031

Matrix Type : GROUNDWATER

Lab Project Number : 914409

WI DNR LAB ID : 113172950

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**Volatile Organic Results**

**SPECIAL VOLATILE LIST - WATER**

Prep Method: SW846 5030

Analyte	Result	EQL	Units	Code	Analysis Date	Analysis Method
1,1,1-Trichloroethane	< 1.0	1.0	ug/L	SUB2	12/22/2001	SW846 8260B
1,1,2-Trichloroethane	< 1.0	1.0	ug/L	SUB2	12/22/2001	SW846 8260B
1,1-Dichloroethane	< 1.0	1.0	ug/L	SUB2	12/22/2001	SW846 8260B
1,1-Dichloroethene	< 1.0	1.0	ug/L	SUB2	12/22/2001	SW846 8260B
1,2-Dichloroethane	< 1.0	1.0	ug/L	SUB2	12/22/2001	SW846 8260B
2-Butanone	< 5.0	5.0	ug/L	SUB2	12/22/2001	SW846 8260B
Acetone	< 5.0	5.0	ug/L	SUB2	12/22/2001	SW846 8260B
Benzene	< 1.0	1.0	ug/L	SUB2	12/22/2001	SW846 8260B
Chloroform	4.6	1.0	ug/L	SUB2	12/22/2001	SW846 8260B
Chloromethane	< 1.0	1.0	ug/L	SUB2	12/22/2001	SW846 8260B
cis-1,2-Dichloroethene	< 1.0	1.0	ug/L	SUB2	12/22/2001	SW846 8260B
Methylene chloride	< 1.0	1.0	ug/L	SUB2	12/22/2001	SW846 8260B
Tetrachloroethene	< 1.0	1.0	ug/L	SUB2	12/22/2001	SW846 8260B
trans-1,2-Dichloroethene	< 1.0	1.0	ug/L	SUB2	12/22/2001	SW846 8260B
Trichloroethene	< 1.0	1.0	ug/L	SUB2	12/22/2001	SW846 8260B

**- Analytical Report -**

Project Name : MEDLEY FARM

Submitter : RMT - GREENVILLE

Project Number : 71243.07

Report Date : 1/2/2002

Field ID : MLW1-2

Collection Date : 12/14/2001

Lab Sample Number : 914409-032

Matrix Type : GROUNDWATER

Lab Project Number : 914409

WI DNR LAB ID : 113172950

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**Volatile Organic Results**

**SPECIAL VOLATILE LIST - WATER**

Prep Method: SW846 5030

Analyte	Result	EQL	Units	Code	Analysis Date	Analysis Method
1,1,1-Trichloroethane	< 1.0	1.0	ug/L	SUB2	12/22/2001	SW846 8260B
1,1,2-Trichloroethane	< 1.0	1.0	ug/L	SUB2	12/22/2001	SW846 8260B
1,1-Dichloroethane	< 1.0	1.0	ug/L	SUB2	12/22/2001	SW846 8260B
1,1-Dichloroethene	< 1.0	1.0	ug/L	SUB2	12/22/2001	SW846 8260B
1,2-Dichloroethane	< 1.0	1.0	ug/L	SUB2	12/22/2001	SW846 8260B
2-Butanone	6.5	5.0	ug/L	SUB2	12/22/2001	SW846 8260B
Acetone	9.0	5.0	ug/L	SUB2	12/22/2001	SW846 8260B
Benzene	< 1.0	1.0	ug/L	SUB2	12/22/2001	SW846 8260B
Chloroform	5.0	1.0	ug/L	SUB2	12/22/2001	SW846 8260B
Chloromethane	< 1.0	1.0	ug/L	SUB2	12/22/2001	SW846 8260B
cis-1,2-Dichloroethene	< 1.0	1.0	ug/L	SUB2	12/22/2001	SW846 8260B
Methylene chloride	1.9	1.0	ug/L	B,SUB2	12/22/2001	SW846 8260B
Tetrachloroethene	< 1.0	1.0	ug/L	SUB2	12/22/2001	SW846 8260B
trans-1,2-Dichloroethene	< 1.0	1.0	ug/L	SUB2	12/22/2001	SW846 8260B
Trichloroethene	< 1.0	1.0	ug/L	SUB2	12/22/2001	SW846 8260B

**- Analytical Report -**

Project Name : MEDLEY FARM

Submitter : RMT - GREENVILLE

Project Number : 71243.07

Report Date : 1/2/2002

Field ID : MLW1-3

Collection Date : 12/14/2001

Lab Sample Number : 914409-033

Matrix Type : GROUNDWATER

Lab Project Number : 914409

WI DNR LAB ID : 113172950

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**Volatile Organic Results**

**SPECIAL VOLATILE LIST - WATER**

Prep Method: SW846 5030

Analyte	Result	EQL	Units	Code	Analysis Date	Analysis Method
1,1,1-Trichloroethane	< 1.0	1.0	ug/L	SUB2	12/22/2001	SW846 8260B
1,1,2-Trichloroethane	< 1.0	1.0	ug/L	SUB2	12/22/2001	SW846 8260B
1,1-Dichloroethane	< 1.0	1.0	ug/L	SUB2	12/22/2001	SW846 8260B
1,1-Dichloroethene	< 1.0	1.0	ug/L	SUB2	12/22/2001	SW846 8260B
1,2-Dichloroethane	< 1.0	1.0	ug/L	SUB2	12/22/2001	SW846 8260B
2-Butanone	< 5.0	5.0	ug/L	SUB2	12/22/2001	SW846 8260B
Acetone	33	5.0	ug/L	SUB2	12/22/2001	SW846 8260B
Benzene	< 1.0	1.0	ug/L	SUB2	12/22/2001	SW846 8260B
Chloroform	1.4	1.0	ug/L	SUB2	12/22/2001	SW846 8260B
Chloromethane	< 1.0	1.0	ug/L	SUB2	12/22/2001	SW846 8260B
cis-1,2-Dichloroethene	< 1.0	1.0	ug/L	SUB2	12/22/2001	SW846 8260B
Methylene chloride	< 1.0	1.0	ug/L	SUB2	12/22/2001	SW846 8260B
Tetrachloroethene	< 1.0	1.0	ug/L	SUB2	12/22/2001	SW846 8260B
trans-1,2-Dichloroethene	< 1.0	1.0	ug/L	SUB2	12/22/2001	SW846 8260B
Trichloroethene	< 1.0	1.0	ug/L	SUB2	12/22/2001	SW846 8260B

**- Analytical Report -**

Project Name : MEDLEY FARM

Submitter : RMT - GREENVILLE

Project Number : 71243.07

Report Date : 1/2/2002

Field ID : MLW3-1

Collection Date : 12/14/2001

Lab Sample Number : 914409-034

Matrix Type : GROUNDWATER

Lab Project Number : 914409

WI DNR LAB ID : 113172950

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**Volatile Organic Results**

SPECIAL VOLATILE LIST - WATER

Prep Method: SW846 5030

Analyte	Result	EQL	Units	Code	Analysis Date	Analysis Method
1,1,1-Trichloroethane	< 1.0	1.0	ug/L	SUB2	12/22/2001	SW846 8260B
1,1,2-Trichloroethane	< 1.0	1.0	ug/L	SUB2	12/22/2001	SW846 8260B
1,1-Dichloroethane	< 1.0	1.0	ug/L	SUB2	12/22/2001	SW846 8260B
1,1-Dichloroethene	< 1.0	1.0	ug/L	SUB2	12/22/2001	SW846 8260B
1,2-Dichloroethane	< 1.0	1.0	ug/L	SUB2	12/22/2001	SW846 8260B
2-Butanone	19	5.0	ug/L	SUB2	12/22/2001	SW846 8260B
Acetone	140	5.0	ug/L	SUB2	12/22/2001	SW846 8260B
Benzene	< 1.0	1.0	ug/L	SUB2	12/22/2001	SW846 8260B
Chloroform	< 1.0	1.0	ug/L	SUB2	12/22/2001	SW846 8260B
Chloromethane	< 1.0	1.0	ug/L	SUB2	12/22/2001	SW846 8260B
cis-1,2-Dichloroethene	< 1.0	1.0	ug/L	SUB2	12/22/2001	SW846 8260B
Methylene chloride	< 1.0	1.0	ug/L	SUB2	12/22/2001	SW846 8260B
Tetrachloroethene	1.9	1.0	ug/L	SUB2	12/22/2001	SW846 8260B
trans-1,2-Dichloroethene	< 1.0	1.0	ug/L	SUB2	12/22/2001	SW846 8260B
Trichloroethene	< 1.0	1.0	ug/L	SUB2	12/22/2001	SW846 8260B

**- Analytical Report -**

Project Name : MEDLEY FARM

Submitter : RMT - GREENVILLE

Project Number : 71243.07

Report Date : 1/2/2002

Field ID : MLW3-2

Collection Date : 12/14/2001

Lab Sample Number : 914409-035

Matrix Type : GROUNDWATER

Lab Project Number : 914409

WI DNR LAB ID : 113172950

**Volatile Organic Results**

**SPECIAL VOLATILE LIST - WATER**

Prep Method: SW846 5030

Analyte	Result	EQL	Units	Code	Analysis Date	Analysis Method
1,1,1-Trichloroethane	< 1.0	1.0	ug/L	SUB2	12/22/2001	SW846 8260B
1,1,2-Trichloroethane	< 1.0	1.0	ug/L	SUB2	12/22/2001	SW846 8260B
1,1-Dichloroethane	< 1.0	1.0	ug/L	SUB2	12/22/2001	SW846 8260B
1,1-Dichloroethene	< 1.0	1.0	ug/L	SUB2	12/22/2001	SW846 8260B
1,2-Dichloroethane	< 1.0	1.0	ug/L	SUB2	12/22/2001	SW846 8260B
2-Butanone	< 5.0	5.0	ug/L	SUB2	12/22/2001	SW846 8260B
Acetone	13	5.0	ug/L	SUB2	12/22/2001	SW846 8260B
Benzene	< 1.0	1.0	ug/L	SUB2	12/22/2001	SW846 8260B
Chloroform	< 1.0	1.0	ug/L	SUB2	12/22/2001	SW846 8260B
Chloromethane	< 1.0	1.0	ug/L	SUB2	12/22/2001	SW846 8260B
cis-1,2-Dichloroethene	< 1.0	1.0	ug/L	SUB2	12/22/2001	SW846 8260B
Methylene chloride	< 1.0	1.0	ug/L	SUB2	12/22/2001	SW846 8260B
Tetrachloroethene	2.0	1.0	ug/L	SUB2	12/22/2001	SW846 8260B
trans-1,2-Dichloroethene	< 1.0	1.0	ug/L	SUB2	12/22/2001	SW846 8260B
Trichloroethene	6.6	1.0	ug/L	SUB2	12/22/2001	SW846 8260B

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**Organic Data Qualifier Sheet****Corporate Office & Laboratory**

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Green Bay, WI 54302

920-469-2436 • Fax: 920-469-8827

1-800-7-ENCHEM

- B Analyte is present in the method blank. Method blank criteria is evaluated to the laboratory LOD. Additionally, method blank acceptance may be based on project specific criteria or determined from analyte concentrations in the sample and are evaluated on a sample by sample basis.
- C Elevated detection limit (see Sample Narrative).
- D Analyte value from diluted analysis.
- DL No surrogate recovery available due to sample dilution.
- E Analyte concentration exceeds calibration range (see Sample Narrative).
- F Surrogate failure (see Sample Narrative).
- G Sample exhibits hydrocarbon pattern resembling gasoline.
- H(n) Analysis performed "n" days past holding time.
- J Qualitative evidence of analyte present: concentration detected is greater than the method detection limit but less than the reporting limit.
- K Detection Limit may be elevated due to the presence of an unrequested analyte (see Sample Narrative).
- L Detects in trip blank.
- M Methanol leakage.
- N Spiked sample recovery not within control limits.
- ND Not Detected.
- NR Not Required.
- P The relative percent difference for detected concentrations between the two columns was greater than 40%.
- Q The analyte has been detected between the Limit of Detection (LOD) and limit of Quantitation (LOQ). The results are qualified due to the uncertainty of analyte concentrations within this range.
- S The relative percent difference between quantitation and confirmation columns exceeds internal quality control criteria. Because the result is unconfirmed, it has been reported as a non-detect with an elevated detection limit.
- U# Elevated LOD due to matrix interference.
- V Heavy hydrocarbon present.
- W Sample received with headspace.
- X See Sample Narrative
- Z See Sample Narrative
- SUB1 Assay was subcontracted to an approved lab.
- SUB2 Assay was subcontracted to En Chem Green Bay WI Cert. # : 405132750.
- & Laboratory Control Spike recovery not within control limits. (See Sample Narrative)
- \* Duplicate analyses not within control limits. (See Sample Narrative)

**EN CHEM  
SAMPLE NARRATIVE**

PROJECT NAME :MEDLEY  
WORKORDER NUMBER :914409  
DATE :December 31, 2001

VOLATILE ORGANICS: For sample 914409-032, methylene chloride is present in the laboratory environment at 2.8 ug/L. Detects should be considered suspect.

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copy: B. Rowan, File



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Project Name: MEDLEY FARMS

Project Number: 71243.04

RMT - GREENVILLE

ATTN: *Mark Bailey*  
100 VERDAE BLVD (29607)

GREENVILLE

SC 29606

Attached are the following for Batch Number: 912627

Organic

Inorganic

QC Data

Diskette

Ship By:  First Class Mail

FedEx

Priority Mail

Other: \_\_\_\_\_

**Comments:**

QC-WMB, 9-14-01: HI, temp, CDC, method, d, blower ✓

level 3 QC ✓

Duplicate RPD ✓

If you have any questions please call your Client Manager: Tom Trainor



## **CHAIN OF CUSTODY RECORD**

Nº 070527

100 Verdae Boulevard, P.O. Box 16778 • Greenville, SC 29606-6778 • Phone (864) 281-0030 • Fax (864) 281-0288

**SPECIAL INSTRUCTIONS**

SAMPLER Relinquished by (Sig.) <i>Bill Medlin</i>	Date/Time 1730 8/10/01	Received by (Sig.) Air-Borre Et II 65009523471	Date/Time	HAZARDS ASSOCIATED WITH SAMPLES <input type="checkbox"/> Flammable <input type="checkbox"/> Corrosive <input type="checkbox"/> Highly Toxic <input type="checkbox"/> Other (list) _____	Turn Around (circle one) Normal	Rush
Relinquished by (Sig.) <i>Airburne</i>	Date/Time	Received by (Sig.) <i>R. Chrane</i>	Date/Time 8/11/01 1100		Report Due 8/24	(For Lab Use Only)
Relinquished by (Sig.)	Date/Time	Received by (Sig.)	Date/Time		Receipt Temp: Temp Blank Y N 5°C KOT	Receipt pH (Wet/Metals) NA
Custody Seal: Present/Absent Intact/Not Intact Seal #'s						



# CHAIN OF CUSTODY RECORD

No 070542

100 Verdae Boulevard, P.O. Box 16778 • Greenville, SC 29606-6778 • Phone (864) 281-0030 • Fax (864) 281-0288

Project No.	Project/Client:
71243.04	Medley Farms

Project Manager/Contact Person:

Steve Webb/LB

Lab No.	Yr. 912627	Date	Time	Sample Station ID	Total Number Of Containers	MATRIX	Comments:
004				TBLK -	3	DI	
005	8-9	1130		MW-3-3	3	GW	3
006	8-9	1145		MW-3-2	3	GW	3
007	8-9	1230		BW-201	3	GW	3
008	8-9	1345		MW-4-1	3	GW	3
009	8-9	1410		MW-4-2	3	GW	3
010	8-9	1445		FBLK-01301	3	DI	3
011	8-9	1500		BW-202	3	GW	3
012	8-10	0946		MW-2-2	3	GW	3
013				DW-01301	3	3	

## SPECIAL INSTRUCTIONS

SAMPLER Relinquished by (Sig.) <i>Bill Medlin</i>	Date/Time 8/10/01 1730	Received by (Sig.) Airborne # 65009523 471	Date/Time	HAZARDS ASSOCIATED WITH SAMPLES <input type="checkbox"/> Flammable <input type="checkbox"/> Corrosive <input type="checkbox"/> Highly Toxic <input type="checkbox"/> Other (list) _____	Turn Around (circle one) Report Due 8/24	Normal	Rush
Relinquished by (Sig.) <i>Air borne</i>	Date/Time	Received by (Sig.) <i>R Brown</i>	Date/Time 8/11/01 1100		(For Lab Use Only)		
Relinquished by (Sig.)	Date/Time	Received by (Sig.)	Date/Time		Receipt Temp: Temp Blank Y	Receipt pH (Wet/Metals) <i>SC ROI</i>	
Custody Seal: Present/Absent Intact/Not Intact Seal #'s							

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### - Analytical Report -

Project Name : MEDLEY FARMS

Client : RMT - GREENVILLE

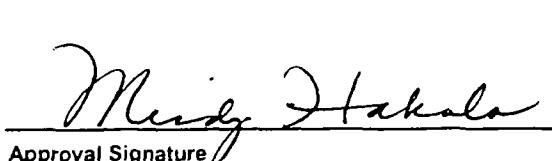
Project Number : 71243.04

Report Date : 8/30/2001

WI DNR LAB ID : 113172950

Lab Sample No.	Field ID	Collection Date	Lab Sample No.	Field ID	Collection Date
912627-001	MW2-1	8/10/2001			
912627-002	DP3-1	8/10/2001			
912627-003	BW-108	8/10/2001			
912627-004	TBLK-01301	8/9/2001			
912627-005	MLW-3-3	8/9/2001			
912627-006	MLW-3-2	8/9/2001			
912627-007	BW-201	8/9/2001			
912627-008	MW4-1	8/9/2001			
912627-009	MW4-2	8/9/2001			
912627-010	FBLK-01301	8/9/2001			
912627-011	BW-202	8/9/2001			
912627-012	MW2-2	8/10/2001			
912627-013	DU-01301				

I certify that the data contained in this Final Report has been generated and reviewed in accordance with approved methods and Laboratory Standard Operating Procedure. Exceptions, if any, are discussed in the accompanying sample narrative. Release of this final report is authorized by Laboratory management, as is verified by the following signature.

  
Approval Signature

8/30/2001

Date

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Project Name : MEDLEY FARMS

Submitter : RMT - GREENVILLE

Project Number : 71243.04

Report Date : 8/30/2001

Field ID : MW2-1

Collection Date : 8/10/2001

Lab Sample Number : 912627-001

Matrix Type : GROUNDWATER

Lab Project Number : 912627

WI DNR LAB ID : 113172950

### Volatile Organic Results

#### SPECIAL VOLATILE LIST - WATER

Prep Method: SW846 5030

Analyte	Result	EQL	Units	Code	Analysis Date	Analysis Method
1,1,1-Trichloroethane	0.92	1.0	ug/L	J	8/14/2001	SW846 8260B
1,1,2-Trichloroethane	< 1.0	1.0	ug/L		8/14/2001	SW846 8260B
1,1-Dichloroethane	0.69	1.0	ug/L	J	8/14/2001	SW846 8260B
1,1-Dichloroethene	13	1.0	ug/L		8/14/2001	SW846 8260B
1,2-Dichloroethane	2.1	1.0	ug/L		8/14/2001	SW846 8260B
2-Butanone	< 5.0	5.0	ug/L		8/14/2001	SW846 8260B
Acetone	< 5.0	5.0	ug/L		8/14/2001	SW846 8260B
Benzene	< 1.0	1.0	ug/L		8/14/2001	SW846 8260B
Chloroform	1.3	1.0	ug/L		8/14/2001	SW846 8260B
Chloromethane	< 2.0	2.0	ug/L		8/14/2001	SW846 8260B
cis-1,2-Dichloroethene	1.6	1.0	ug/L		8/14/2001	SW846 8260B
Methylene chloride	< 1.0	1.0	ug/L		8/14/2001	SW846 8260B
Tetrachloroethene	16	1.0	ug/L		8/14/2001	SW846 8260B
trans-1,2-Dichloroethene	< 1.0	1.0	ug/L		8/14/2001	SW846 8260B
Trichloroethene	27	1.0	ug/L		8/14/2001	SW846 8260B

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Project Name : MEDLEY FARMS

Submitter : RMT - GREENVILLE

Project Number : 71243.04

Report Date : 8/30/2001

Field ID : DP3-1

Collection Date : 8/10/2001

Lab Sample Number : 912627-002

Matrix Type : GROUNDWATER

Lab Project Number : 912627

WI DNR LAB ID : 113172950

### Volatile Organic Results

#### SPECIAL VOLATILE LIST - WATER

Prep Method: SW846 5030

Analyte	Result	EQL	Units	Code	Analysis Date	Analysis Method
1,1,1-Trichloroethane	16	5.0	ug/L		8/14/2001	SW846 8260B
1,1,2-Trichloroethane	< 5.0	5.0	ug/L		8/14/2001	SW846 8260B
1,1-Dichloroethane	< 5.0	5.0	ug/L		8/14/2001	SW846 8260B
1,1-Dichloroethene	54	5.0	ug/L		8/14/2001	SW846 8260B
1,2-Dichloroethane	130	5.0	ug/L		8/14/2001	SW846 8260B
2-Butanone	< 25	25	ug/L		8/14/2001	SW846 8260B
Acetone	< 25	25	ug/L		8/14/2001	SW846 8260B
Benzene	< 5.0	5.0	ug/L		8/14/2001	SW846 8260B
Chloroform	97	5.0	ug/L		8/14/2001	SW846 8260B
Chloromethane	< 10	10	ug/L		8/14/2001	SW846 8260B
cis-1,2-Dichloroethene	16	5.0	ug/L		8/14/2001	SW846 8260B
Methylene chloride	< 5.0	5.0	ug/L		8/14/2001	SW846 8260B
Tetrachloroethene	220	5.0	ug/L		8/14/2001	SW846 8260B
trans-1,2-Dichloroethene	< 5.0	5.0	ug/L		8/14/2001	SW846 8260B
Trichloroethene	560	5.0	ug/L		8/14/2001	SW846 8260B

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Project Name : MEDLEY FARMS  
Project Number : 71243.04  
Field ID : BW-108  
Lab Sample Number : 912627-003  
Lab Project Number : 912627

Submitter : RMT - GREENVILLE  
Report Date : 8/30/2001  
Collection Date : 8/10/2001  
Matrix Type : GROUNDWATER  
WI DNR LAB ID : 113172950

### Volatile Organic Results

#### SPECIAL VOLATILE LIST - WATER

Prep Method: SW846 5030

Analyte	Result	EQL	Units	Code	Analysis Date	Analysis Method
1,1,1-Trichloroethane	< 1.0	1.0	ug/L		8/14/2001	SW846 8260B
1,1,2-Trichloroethane	< 1.0	1.0	ug/L		8/14/2001	SW846 8260B
1,1-Dichloroethane	< 1.0	1.0	ug/L		8/14/2001	SW846 8260B
1,1-Dichloroethene	0.57	1.0	ug/L	J	8/14/2001	SW846 8260B
1,2-Dichloroethane	< 1.0	1.0	ug/L		8/14/2001	SW846 8260B
2-Butanone	< 5.0	5.0	ug/L		8/14/2001	SW846 8260B
Acetone	< 5.0	5.0	ug/L		8/14/2001	SW846 8260B
Benzene	< 1.0	1.0	ug/L		8/14/2001	SW846 8260B
Chloroform	< 1.0	1.0	ug/L		8/14/2001	SW846 8260B
Chloromethane	< 2.0	2.0	ug/L		8/14/2001	SW846 8260B
cis-1,2-Dichloroethene	0.90	1.0	ug/L	J	8/14/2001	SW846 8260B
Methylene chloride	< 1.0	1.0	ug/L		8/14/2001	SW846 8260B
Tetrachloroethene	3.2	1.0	ug/L		8/14/2001	SW846 8260B
trans-1,2-Dichloroethene	< 1.0	1.0	ug/L		8/14/2001	SW846 8260B
Trichloroethene	4.2	1.0	ug/L		8/14/2001	SW846 8260B

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Project Name : MEDLEY FARMS  
Project Number : 71243.04  
Field ID : TBLK-01301  
Lab Sample Number : 912627-004  
Lab Project Number : 912627

Submitter : RMT - GREENVILLE  
Report Date : 8/30/2001  
Collection Date : 8/9/2001  
Matrix Type : BLANK  
WI DNR LAB ID : 113172950

### Volatile Organic Results

#### SPECIAL VOLATILE LIST - WATER

Prep Method: SW846 5030

Analyte	Result	EQL	Units	Code	Analysis Date	Analysis Method
1,1,1-Trichloroethane	< 1.0	1.0	ug/L		8/14/2001	SW846 8260B
1,1,2-Trichloroethane	< 1.0	1.0	ug/L		8/14/2001	SW846 8260B
1,1-Dichloroethane	< 1.0	1.0	ug/L		8/14/2001	SW846 8260B
1,1-Dichloroethene	< 1.0	1.0	ug/L		8/14/2001	SW846 8260B
1,2-Dichloroethane	< 1.0	1.0	ug/L		8/14/2001	SW846 8260B
2-Butanone	< 5.0	5.0	ug/L		8/14/2001	SW846 8260B
Acetone	< 5.0	5.0	ug/L		8/14/2001	SW846 8260B
Benzene	< 1.0	1.0	ug/L		8/14/2001	SW846 8260B
Chloroform	< 1.0	1.0	ug/L		8/14/2001	SW846 8260B
Chloromethane	< 2.0	2.0	ug/L		8/14/2001	SW846 8260B
cis-1,2-Dichloroethene	< 1.0	1.0	ug/L		8/14/2001	SW846 8260B
Methylene chloride	< 1.0	1.0	ug/L		8/14/2001	SW846 8260B
Tetrachloroethene	< 1.0	1.0	ug/L		8/14/2001	SW846 8260B
trans-1,2-Dichloroethene	< 1.0	1.0	ug/L		8/14/2001	SW846 8260B
Trichloroethene	< 1.0	1.0	ug/L		8/14/2001	SW846 8260B

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Project Name : MEDLEY FARMS  
Project Number : 71243.04  
Field ID : MLW-3-3  
Lab Sample Number : 912627-005  
Lab Project Number : 912627

Submitter : RMT - GREENVILLE  
Report Date : 8/30/2001  
Collection Date : 8/9/2001  
Matrix Type : GROUNDWATER  
WI DNR LAB ID : 113172950

### Volatile Organic Results

#### SPECIAL VOLATILE LIST - WATER

Prep Method: SW846 5030

Analyte	Result	EQL	Units	Code	Analysis Date	Analysis Method
1,1,1-Trichloroethane	< 1.0	1.0	ug/L		8/14/2001	SW846 8260B
1,1,2-Trichloroethane	< 1.0	1.0	ug/L		8/14/2001	SW846 8260B
1,1-Dichloroethane	< 1.0	1.0	ug/L		8/14/2001	SW846 8260B
1,1-Dichloroethene	< 1.0	1.0	ug/L		8/14/2001	SW846 8260B
1,2-Dichloroethane	< 1.0	1.0	ug/L		8/14/2001	SW846 8260B
2-Butanone	2.2	5.0	ug/L	J	8/14/2001	SW846 8260B
Acetone	5.9	5.0	ug/L		8/14/2001	SW846 8260B
Benzene	< 1.0	1.0	ug/L		8/14/2001	SW846 8260B
Chloroform	< 1.0	1.0	ug/L		8/14/2001	SW846 8260B
Chloromethane	< 2.0	2.0	ug/L		8/14/2001	SW846 8260B
cis-1,2-Dichloroethene	< 1.0	1.0	ug/L		8/14/2001	SW846 8260B
Methylene chloride	0.46	1.0	ug/L	J	8/14/2001	SW846 8260B
Tetrachloroethene	2.7	1.0	ug/L		8/14/2001	SW846 8260B
trans-1,2-Dichloroethene	< 1.0	1.0	ug/L		8/14/2001	SW846 8260B
Trichloroethene	8.4	1.0	ug/L		8/14/2001	SW846 8260B

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Project Name : MEDLEY FARMS  
Project Number : 71243.04  
Field ID : MLW-3-2  
Lab Sample Number : 912627-006  
Lab Project Number : 912627

Submitter : RMT - GREENVILLE  
Report Date : 8/30/2001  
Collection Date : 8/9/2001  
Matrix Type : GROUNDWATER  
WI DNR LAB ID : 113172950

### Volatile Organic Results

#### SPECIAL VOLATILE LIST - WATER

Prep Method: SW846 5030

Analyte	Result	EQL	Units	Code	Analysis Date	Analysis Method
1,1,1-Trichloroethane	< 1.0	1.0	ug/L		8/14/2001	SW846 8260B
1,1,2-Trichloroethane	< 1.0	1.0	ug/L		8/14/2001	SW846 8260B
1,1-Dichloroethane	< 1.0	1.0	ug/L		8/14/2001	SW846 8260B
1,1-Dichloroethene	< 1.0	1.0	ug/L		8/14/2001	SW846 8260B
1,2-Dichloroethane	< 1.0	1.0	ug/L		8/14/2001	SW846 8260B
2-Butanone	6.5	5.0	ug/L		8/14/2001	SW846 8260B
Acetone	26	5.0	ug/L		8/14/2001	SW846 8260B
Benzene	< 1.0	1.0	ug/L		8/14/2001	SW846 8260B
Chloroform	< 1.0	1.0	ug/L		8/14/2001	SW846 8260B
Chloromethane	< 2.0	2.0	ug/L		8/14/2001	SW846 8260B
cis-1,2-Dichloroethene	< 1.0	1.0	ug/L		8/14/2001	SW846 8260B
Methylene chloride	< 1.0	1.0	ug/L		8/14/2001	SW846 8260B
Tetrachloroethene	0.78	1.0	ug/L	J	8/14/2001	SW846 8260B
trans-1,2-Dichloroethene	< 1.0	1.0	ug/L		8/14/2001	SW846 8260B
Trichloroethene	3.5	1.0	ug/L		8/14/2001	SW846 8260B

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Project Name : MEDLEY FARMS

Submitter : RMT - GREENVILLE

Project Number : 71243.04

Report Date : 8/30/2001

Field ID : BW-201

Collection Date : 8/9/2001

Lab Sample Number : 912627-007

Matrix Type : GROUNDWATER

Lab Project Number : 912627

WI DNR LAB ID : 113172950

### Volatile Organic Results

#### SPECIAL VOLATILE LIST - WATER

Prep Method: SW846 5030

Analyte	Result	EQL	Units	Code	Analysis Date	Analysis Method
1,1,1-Trichloroethane	< 1.0	1.0	ug/L		8/14/2001	SW846 8260B
1,1,2-Trichloroethane	< 1.0	1.0	ug/L		8/14/2001	SW846 8260B
1,1-Dichloroethane	< 1.0	1.0	ug/L		8/14/2001	SW846 8260B
1,1-Dichloroethene	< 1.0	1.0	ug/L		8/14/2001	SW846 8260B
1,2-Dichloroethane	< 1.0	1.0	ug/L		8/14/2001	SW846 8260B
2-Butanone	< 5.0	5.0	ug/L		8/14/2001	SW846 8260B
Acetone	< 5.0	5.0	ug/L		8/14/2001	SW846 8260B
Benzene	< 1.0	1.0	ug/L		8/14/2001	SW846 8260B
Chloroform	< 1.0	1.0	ug/L		8/14/2001	SW846 8260B
Chloromethane	< 2.0	2.0	ug/L		8/14/2001	SW846 8260B
cis-1,2-Dichloroethene	1.0	1.0	ug/L		8/14/2001	SW846 8260B
Methylene chloride	< 1.0	1.0	ug/L		8/14/2001	SW846 8260B
Tetrachloroethene	2.8	1.0	ug/L		8/14/2001	SW846 8260B
trans-1,2-Dichloroethene	< 1.0	1.0	ug/L		8/14/2001	SW846 8260B
Trichloroethene	4.2	1.0	ug/L		8/14/2001	SW846 8260B

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Project Name : MEDLEY FARMS

Submitter : RMT - GREENVILLE

Project Number : 71243.04

Report Date : 8/30/2001

Field ID : MW4-1

Collection Date : 8/9/2001

Lab Sample Number : 912627-008

Matrix Type : GROUNDWATER

Lab Project Number : 912627

WI DNR LAB ID : 113172950

### Volatile Organic Results

#### SPECIAL VOLATILE LIST - WATER

Prep Method: SW846 5030

Analyte	Result	EQL	Units	Code	Analysis Date	Analysis Method
1,1,1-Trichloroethane	0.60	1.0	ug/L	J	8/14/2001	SW846 8260B
1,1,2-Trichloroethane	19	1.0	ug/L		8/14/2001	SW846 8260B
1,1-Dichloroethane	< 1.0	1.0	ug/L		8/14/2001	SW846 8260B
1,1-Dichloroethene	3.9	1.0	ug/L		8/14/2001	SW846 8260B
1,2-Dichloroethane	1.1	1.0	ug/L		8/14/2001	SW846 8260B
2-Butanone	< 5.0	5.0	ug/L		8/14/2001	SW846 8260B
Acetone	< 5.0	5.0	ug/L		8/14/2001	SW846 8260B
Benzene	< 1.0	1.0	ug/L		8/14/2001	SW846 8260B
Chloroform	49	1.0	ug/L		8/14/2001	SW846 8260B
Chloromethane	< 2.0	2.0	ug/L		8/14/2001	SW846 8260B
cis-1,2-Dichloroethene	1.5	1.0	ug/L		8/14/2001	SW846 8260B
Methylene chloride	< 1.0	1.0	ug/L		8/14/2001	SW846 8260B
Tetrachloroethene	72	1.0	ug/L		8/14/2001	SW846 8260B
trans-1,2-Dichloroethene	< 1.0	1.0	ug/L		8/14/2001	SW846 8260B
Trichloroethene	160	1.0	ug/L		8/14/2001	SW846 8260B

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Project Name : MEDLEY FARMS

Submitter : RMT - GREENVILLE

Project Number : 71243.04

Report Date : 8/30/2001

Field ID : MW4-2

Collection Date : 8/9/2001

Lab Sample Number : 912627-009

Matrix Type : GROUNDWATER

Lab Project Number : 912627

WI DNR LAB ID : 113172950

### Volatile Organic Results

#### SPECIAL VOLATILE LIST - WATER

Prep Method: SW846 5030

Analyte	Result	EQL	Units	Code	Analysis Date	Analysis Method
1,1,1-Trichloroethane	< 2.0	2.0	ug/L		8/14/2001	SW846 8260B
1,1,2-Trichloroethane	< 2.0	2.0	ug/L		8/14/2001	SW846 8260B
1,1-Dichloroethane	< 2.0	2.0	ug/L		8/14/2001	SW846 8260B
1,1-Dichloroethene	2.2	2.0	ug/L		8/14/2001	SW846 8260B
1,2-Dichloroethane	< 2.0	2.0	ug/L		8/14/2001	SW846 8260B
2-Butanone	< 10	10	ug/L		8/14/2001	SW846 8260B
Acetone	< 10	10	ug/L		8/14/2001	SW846 8260B
Benzene	< 2.0	2.0	ug/L		8/14/2001	SW846 8260B
Chloroform	14	2.0	ug/L		8/14/2001	SW846 8260B
Chloromethane	< 4.0	4.0	ug/L		8/14/2001	SW846 8260B
cis-1,2-Dichloroethene	1.9	2.0	ug/L	J	8/14/2001	SW846 8260B
Methylene chloride	< 2.0	2.0	ug/L		8/14/2001	SW846 8260B
Tetrachloroethene	50	2.0	ug/L		8/14/2001	SW846 8260B
trans-1,2-Dichloroethene	< 2.0	2.0	ug/L		8/14/2001	SW846 8260B
Trichloroethene	180	2.0	ug/L		8/14/2001	SW846 8260B

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Project Name : MEDLEY FARMS

Submitter : RMT - GREENVILLE

Project Number : 71243.04

Report Date : 8/30/2001

Field ID : FBLK-01301

Collection Date : 8/9/2001

Lab Sample Number : 912627-010

Matrix Type : WATER

Lab Project Number : 912627

WI DNR LAB ID : 113172950

### Volatile Organic Results

#### SPECIAL VOLATILE LIST - WATER

Prep Method: SW846 5030

Analyte	Result	EQL	Units	Code	Analysis Date	Analysis Method
1,1,1-Trichloroethane	< 1.0	1.0	ug/L		8/14/2001	SW846 8260B
1,1,2-Trichloroethane	< 1.0	1.0	ug/L		8/14/2001	SW846 8260B
1,1-Dichloroethane	< 1.0	1.0	ug/L		8/14/2001	SW846 8260B
1,1-Dichloroethene	< 1.0	1.0	ug/L		8/14/2001	SW846 8260B
1,2-Dichloroethane	< 1.0	1.0	ug/L		8/14/2001	SW846 8260B
2-Butanone	< 5.0	5.0	ug/L		8/14/2001	SW846 8260B
Acetone	< 5.0	5.0	ug/L		8/14/2001	SW846 8260B
Benzene	< 1.0	1.0	ug/L		8/14/2001	SW846 8260B
Chloroform	< 1.0	1.0	ug/L		8/14/2001	SW846 8260B
Chloromethane	< 2.0	2.0	ug/L		8/14/2001	SW846 8260B
cis-1,2-Dichloroethene	< 1.0	1.0	ug/L		8/14/2001	SW846 8260B
Methylene chloride	< 1.0	1.0	ug/L		8/14/2001	SW846 8260B
Tetrachloroethene	< 1.0	1.0	ug/L		8/14/2001	SW846 8260B
trans-1,2-Dichloroethene	< 1.0	1.0	ug/L		8/14/2001	SW846 8260B
Trichloroethene	< 1.0	1.0	ug/L		8/14/2001	SW846 8260B

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Project Name : MEDLEY FARMS

Submitter : RMT - GREENVILLE

Project Number : 71243.04

Report Date : 8/30/2001

Field ID : BW-202

Collection Date : 8/9/2001

Lab Sample Number : 912627-011

Matrix Type : GROUNDWATER

Lab Project Number : 912627

WI DNR LAB ID : 113172950

### Volatile Organic Results

#### SPECIAL VOLATILE LIST - WATER

Prep Method: SW846 5030

Analyte	Result	EQL	Units	Code	Analysis Date	Analysis Method
1,1,1-Trichloroethane	< 1.0	1.0	ug/L		8/14/2001	SW846 8260B
1,1,2-Trichloroethane	< 1.0	1.0	ug/L		8/14/2001	SW846 8260B
1,1-Dichloroethane	< 1.0	1.0	ug/L		8/14/2001	SW846 8260B
1,1-Dichloroethene	< 1.0	1.0	ug/L		8/14/2001	SW846 8260B
1,2-Dichloroethane	< 1.0	1.0	ug/L		8/14/2001	SW846 8260B
2-Butanone	< 5.0	5.0	ug/L		8/14/2001	SW846 8260B
Acetone	< 5.0	5.0	ug/L		8/14/2001	SW846 8260B
Benzene	< 1.0	1.0	ug/L		8/14/2001	SW846 8260B
Chloroform	< 1.0	1.0	ug/L		8/14/2001	SW846 8260B
Chloromethane	< 2.0	2.0	ug/L		8/14/2001	SW846 8260B
cis-1,2-Dichloroethene	< 1.0	1.0	ug/L		8/14/2001	SW846 8260B
Methylene chloride	< 1.0	1.0	ug/L		8/14/2001	SW846 8260B
Tetrachloroethene	3.0	1.0	ug/L		8/14/2001	SW846 8260B
trans-1,2-Dichloroethene	< 1.0	1.0	ug/L		8/14/2001	SW846 8260B
Trichloroethene	0.91	1.0	ug/L	J	8/14/2001	SW846 8260B

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Project Name : MEDLEY FARMS  
Project Number : 71243.04  
Field ID : MW2-2  
Lab Sample Number : 912627-012  
Lab Project Number : 912627

Submitter : RMT - GREENVILLE  
Report Date : 8/30/2001  
Collection Date : 8/10/2001  
Matrix Type : GROUNDWATER  
WI DNR LAB ID : 113172950

### Volatile Organic Results

#### SPECIAL VOLATILE LIST - WATER

Prep Method: SW846 5030

Analyte	Result	EQL	Units	Code	Analysis Date	Analysis Method
1,1,1-Trichloroethane	1.5	1.0	ug/L		8/14/2001	SW846 8260B
1,1,2-Trichloroethane	< 1.0	1.0	ug/L		8/14/2001	SW846 8260B
1,1-Dichloroethane	< 1.0	1.0	ug/L		8/14/2001	SW846 8260B
1,1-Dichloroethene	5.3	1.0	ug/L		8/14/2001	SW846 8260B
1,2-Dichloroethane	3.5	1.0	ug/L		8/14/2001	SW846 8260B
2-Butanone	< 5.0	5.0	ug/L		8/14/2001	SW846 8260B
Acetone	< 5.0	5.0	ug/L		8/14/2001	SW846 8260B
Benzene	< 1.0	1.0	ug/L		8/14/2001	SW846 8260B
Chloroform	6.0	1.0	ug/L		8/14/2001	SW846 8260B
Chloromethane	< 2.0	2.0	ug/L		8/14/2001	SW846 8260B
cis-1,2-Dichloroethene	4.2	1.0	ug/L		8/14/2001	SW846 8260B
Methylene chloride	< 1.0	1.0	ug/L		8/14/2001	SW846 8260B
Tetrachloroethene	23	1.0	ug/L		8/14/2001	SW846 8260B
trans-1,2-Dichloroethene	< 1.0	1.0	ug/L		8/14/2001	SW846 8260B
Trichloroethene	62	1.0	ug/L		8/14/2001	SW846 8260B

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Project Name : MEDLEY FARMS

Submitter : RMT - GREENVILLE

Project Number : 71243.04

Report Date : 8/30/2001

Field ID : DU-01301

Collection Date :

Lab Sample Number : 912627-013

Matrix Type : GROUNDWATER

Lab Project Number : 912627

WI DNR LAB ID : 113172950

### Volatile Organic Results

#### SPECIAL VOLATILE LIST - WATER

Prep Method: SW846 5030

Analyte	Result	EQL	Units	Code	Analysis Date	Analysis Method
1,1,1-Trichloroethane	< 1.0	1.0	ug/L		8/14/2001	SW846 8260B
1,1,2-Trichloroethane	< 1.0	1.0	ug/L		8/14/2001	SW846 8260B
1,1-Dichloroethane	< 1.0	1.0	ug/L		8/14/2001	SW846 8260B
1,1-Dichloroethene	< 1.0	1.0	ug/L		8/14/2001	SW846 8260B
1,2-Dichloroethane	< 1.0	1.0	ug/L		8/14/2001	SW846 8260B
2-Butanone	< 5.0	5.0	ug/L		8/14/2001	SW846 8260B
Acetone	< 5.0	5.0	ug/L		8/14/2001	SW846 8260B
Benzene	< 1.0	1.0	ug/L		8/14/2001	SW846 8260B
Chloroform	< 1.0	1.0	ug/L		8/14/2001	SW846 8260B
Chloromethane	< 2.0	2.0	ug/L		8/14/2001	SW846 8260B
cis-1,2-Dichloroethene	1.1	1.0	ug/L		8/14/2001	SW846 8260B
Methylene chloride	< 1.0	1.0	ug/L		8/14/2001	SW846 8260B
Tetrachloroethene	3.0	1.0	ug/L		8/14/2001	SW846 8260B
trans-1,2-Dichloroethene	< 1.0	1.0	ug/L		8/14/2001	SW846 8260B
Trichloroethene	4.2	1.0	ug/L		8/14/2001	SW846 8260B

**Organic Data Qualifier Sheet**

- B Analyte is present in the method blank. Method blank criteria is evaluated to the laboratory LOD. Additionally, method blank acceptance may be based on project specific criteria or determined from analyte concentrations in the sample and are evaluated on a sample by sample basis.
- C Elevated detection limit (see Sample Narrative).
- D Analyte value from diluted analysis.
- DL No surrogate recovery available due to sample dilution.
- E Analyte concentration exceeds calibration range (see Sample Narrative).
- F Surrogate failure (see Sample Narrative).
- G Sample exhibits hydrocarbon pattern resembling gasoline.
- H(n) Analysis performed "n" days past holding time.
- J Qualitative evidence of analyte present: concentration detected is greater than the method detection limit but less than the reporting limit.
- K Detection Limit may be elevated due to the presence of an unrequested analyte (see Sample Narrative).
- L Detects in trip blank.
- M Methanol leakage.
- N Spiked sample recovery not within control limits.
- ND Not Detected.
- NR Not Required.
- P The relative percent difference for detected concentrations between the two GC columns was greater than 40% difference.
- Q The analyte has been detected between the Limit of Detection (LOD) and limit of Quantitation (LOQ). The results are qualified due to the uncertainty of analyte concentrations within this range.
- U# Elevated LOD due to matrix interference.
- V Heavy hydrocarbon present.
- W Sample received with headspace.
- X See Sample Narrative
- Z See Sample Narrative
- SUB1 Assay was subcontracted to an approved lab.
- SUB2 Assay was subcontracted to En Chem Green Bay WI Cert. # : 405132750.
- & Laboratory Control Spike recovery not within control limits (See Sample Narrative).
- \* Duplicate analyses not within control limits.

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Project Name: MEDLEY

Project Number: 71243.04

RMT - GREENVILLE

ATTN: *Marc Bailey*  
100 VERDAE BLVD (29607)

GREENVILLE

SC 29606

Attached are the following for Batch Number: 911334

- Organic
- Inorganic
- QC Data
- Diskette

Ship By:  First Class Mail  FedEx  
 Priority Mail  Other: \_\_\_\_\_

Comments:

QC - WMB, 5-21-01: HI, temp, CDC, method, dil, blanks ✓  
Due to <sup>lab</sup> duplicate RPD outside control limits, 1,2-dichloroethane  
for DU01201, DP3-1, MW2-1, MW2-2 should be qualified  
"j" as estimated.

DU01201 = DP3-1

If you have any questions please call your Client Manager: Kevin Hinckley



## CHAIN OF CUSTODY RECORD

No 071317

100 Verdae Boulevard, P.O. Box 16778 • Greenville, SC 29606-6778 • Phone (864) 281-0030 • Fax (864) 281-0288

Project No. 71243.04	Project/Client: McDley	Total Number Of Containers	MATRIX
Project Manager/Contact Person: Steve Webb / Mark Bailey			

		Filtered (Yes/No)	N										
		Preserved (Code)	E										
		Analyses Requested											
Lab No.	Yr. 01	Date	Time	Sample Station ID	Total Number Of Containers	MATRIX							Comments:
91334													
-001	—	—	TBLK-01201	3	DI	3							
-002	5-1	1055	BW-201	3	GW	3							Rnd 1 broken vial. 5/4/01
-003	(	1140	BW-202	3	/	3							
-004	(	1330	MW4-2	3	/	3							
-005	(	1415	DP3-1	3		3							
-006	5-2	1005	MLW3-2	3		3							
-007	(	1020	MLW3-3	3		3							
-008	(	1130	MW2-2	3		3							
-009	(	1215	MW2-1	3		3							
-010	—	—	DU-01201	3		3							

## SPECIAL INSTRUCTIONS

SAMPLER Relinquished by (Sig.) 	Date/Time 5-3-01	Received by (Sig.) Airborne 5-3-01	Date/Time 5-5009396-270	HAZARDS ASSOCIATED WITH SAMPLES	Turn Around (circle one) Normal	Rush
Relinquished by (Sig.) Airborne	Date/Time 5/4/01 10:30	Received by (Sig.) 	Date/Time 5/4/01 10:30	<input type="checkbox"/> Flammable <input type="checkbox"/> Corrosive <input type="checkbox"/> Highly Toxic <input type="checkbox"/> Other (list) _____	Report Due _____	(For Lab Use Only)
Relinquished by (Sig.) Airborne	Date/Time 5/4/01 10:30	Received by (Sig.) 	Date/Time 5/4/01 10:30		Receipt Temp: Temp Blank Y N 3°C 12.0 J	Receipt pH (Wet/Metals) NA
Custody Seal: Present/Absent Intact/Not Intact	Seal #'s					



# **CHAIN OF CUSTODY RECORD**

Nº 071318

100 Verdae Boulevard, P.O. Box 16778 • Greenville, SC 29606-6778 • Phone (864) 281-0030 • Fax (864) 281-0288

Project No. 71243.04	Project/Client: Medley
Project Manager/Contact Person: Steve Webb / M. Bailey	

**SPECIAL INSTRUCTIONS**

SAMPLER Relinquished by (Sig.) <i>J. Oll</i>	Date/Time 5-3-01	Received by (Sig.) <i>Airborne</i>	Date/Time 5-3-01	HAZARDS ASSOCIATED WITH SAMPLES  <input type="checkbox"/> Flammable <input type="checkbox"/> Corrosive <input type="checkbox"/> Highly Toxic <input type="checkbox"/> Other (list) <hr/>	Turn Around (circle one) Normal	Rush
Relinquished by (Sig.) <i>Airborne</i>	Date/Time 5/4/01 10:30	Received by (Sig.) <i>Airborne</i>	Date/Time 5/4/01 10:30		Report Due _____	(For Lab Use Only)
Relinquished by (Sig.)	Date/Time	Received by (Sig.)	Date/Time		Receipt Temp: Temp Blank . Y N <i>3°C R01</i>	Receipt pH (Wet/Metals) <i>NA</i>
Custody Seal: Present/Absent <input checked="" type="checkbox"/> Intact <input type="checkbox"/> Not Intact Seal #'s						

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### - Analytical Report -

Project Name : MEDLEY

Client : RMT - GREENVILLE

Project Number : 71243.04

Report Date : 05/14/01

WI DNR LAB ID : 113172950

Lab Sample No.	Field ID	Collection Date	Lab Sample No.	Field ID	Collection Date
911334-001	TBLK-01201	05/01/01			
911334-002	BW-201	05/01/01			
911334-003	BW-202	05/01/01			
911334-004	MW4-2	05/01/01			
911334-005	DP3-1	05/01/01			
911334-006	MLW3-2	05/02/01			
911334-007	MLW3-3	05/02/01			
911334-008	MW2-2	05/02/01			
911334-009	MW2-1	05/02/01			
911334-010	DU-01201				
911334-011	BW-108	05/02/01			
911334-012	FBLK-01201	05/02/01			
911334-013	MW4-1	05/02/01			

I certify that the data contained in this Final Report has been generated and reviewed in accordance with approved methods and Laboratory Standard Operating Procedure. Exceptions, if any, are discussed in the accompanying sample narrative. Release of this final report is authorized by Laboratory management, as is verified by the following signature.

Approval Signature

Date

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**- Analytical Report -**

Project Name : MEDLEY

Submitter : RMT - GREENVILLE

Project Number : 71243.04

Report Date : 05/14/01

Field ID : TBLK-01201

Collection Date : 05/01/01

Lab Sample Number : 911334-001

Matrix Type : BLANK

Lab Project Number : 911334

WI DNR LAB ID : 113172950

**Volatile Organic Results**

**SPECIAL VOLATILE LIST - WATER**

Prep Method: SW846 5030

Analyte	Result	EQL	Units	Code	Analysis Date	Analysis Method
1,1,1-Trichloroethane	< 1.0	1.0	ug/L		05/08/01	SW846 8260B
1,1,2-Trichloroethane	< 1.0	1.0	ug/L		05/08/01	SW846 8260B
1,1-Dichloroethane	< 1.0	1.0	ug/L		05/08/01	SW846 8260B
1,1-Dichloroethene	< 1.0	1.0	ug/L		05/08/01	SW846 8260B
1,2-Dichloroethane	< 1.0	1.0	ug/L		05/08/01	SW846 8260B
2-Butanone	< 5.0	5.0	ug/L		05/08/01	SW846 8260B
Acetone	< 5.0	5.0	ug/L		05/08/01	SW846 8260B
Benzene	< 1.0	1.0	ug/L		05/08/01	SW846 8260B
Chloroform	< 1.0	1.0	ug/L		05/08/01	SW846 8260B
Chloromethane	< 2.0	2.0	ug/L		05/08/01	SW846 8260B
cis-1,2-Dichloroethene	< 1.0	1.0	ug/L		05/08/01	SW846 8260B
Methylene chloride	< 1.0	1.0	ug/L		05/08/01	SW846 8260B
Tetrachloroethene	< 1.0	1.0	ug/L		05/08/01	SW846 8260B
trans-1,2-Dichloroethene	< 1.0	1.0	ug/L		05/08/01	SW846 8260B
Trichloroethene	< 1.0	1.0	ug/L		05/08/01	SW846 8260B

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**- Analytical Report -**

Project Name : MEDLEY

Submitter : RMT - GREENVILLE

Project Number : 71243.04

Report Date : 05/14/01

Field ID : BW-201

Collection Date : 05/01/01

Lab Sample Number : 911334-002

Matrix Type : GROUNDWATER

Lab Project Number : 911334

WI DNR LAB ID : 113172950

**Volatile Organic Results**

**SPECIAL VOLATILE LIST - WATER**

Prep Method: SW846 5030

Analyte	Result	EQL	Units	Code	Analysis Date	Analysis Method
1,1,1-Trichloroethane	< 1.0	1.0	ug/L		05/08/01	SW846 8260B
1,1,2-Trichloroethane	< 1.0	1.0	ug/L		05/08/01	SW846 8260B
1,1-Dichloroethane	< 1.0	1.0	ug/L		05/08/01	SW846 8260B
1,1-Dichloroethene	< 1.0	1.0	ug/L		05/08/01	SW846 8260B
1,2-Dichloroethane	< 1.0	1.0	ug/L		05/08/01	SW846 8260B
2-Butanone	< 5.0	5.0	ug/L		05/08/01	SW846 8260B
Acetone	< 5.0	5.0	ug/L		05/08/01	SW846 8260B
Benzene	< 1.0	1.0	ug/L		05/08/01	SW846 8260B
Chloroform	< 1.0	1.0	ug/L		05/08/01	SW846 8260B
Chloromethane	< 2.0	2.0	ug/L		05/08/01	SW846 8260B
cis-1,2-Dichloroethene	< 1.0	1.0	ug/L		05/08/01	SW846 8260B
Methylene chloride	< 1.0	1.0	ug/L		05/08/01	SW846 8260B
Tetrachloroethene	3.3	1.0	ug/L		05/08/01	SW846 8260B
trans-1,2-Dichloroethene	< 1.0	1.0	ug/L		05/08/01	SW846 8260B
Trichloroethene	4.2	1.0	ug/L		05/08/01	SW846 8260B

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**- Analytical Report -**

Project Name : MEDLEY

Submitter : RMT - GREENVILLE

Project Number : 71243.04

Report Date : 05/14/01

Field ID : BW-202

Collection Date : 05/01/01

Lab Sample Number : 911334-003

Matrix Type : GROUNDWATER

Lab Project Number : 911334

WI DNR LAB ID : 113172950

**Volatile Organic Results**

**SPECIAL VOLATILE LIST - WATER**

Prep Method: SW846 5030

Analyte	Result	EQL	Units	Code	Analysis Date	Analysis Method
1,1,1-Trichloroethane	< 1.0	1.0	ug/L		05/08/01	SW846 8260B
1,1,2-Trichloroethane	< 1.0	1.0	ug/L		05/08/01	SW846 8260B
1,1-Dichloroethane	< 1.0	1.0	ug/L		05/08/01	SW846 8260B
1,1-Dichloroethene	< 1.0	1.0	ug/L		05/08/01	SW846 8260B
1,2-Dichloroethane	< 1.0	1.0	ug/L		05/08/01	SW846 8260B
2-Butanone	< 5.0	5.0	ug/L		05/08/01	SW846 8260B
Acetone	< 5.0	5.0	ug/L		05/08/01	SW846 8260B
Benzene	< 1.0	1.0	ug/L		05/08/01	SW846 8260B
Chloroform	< 1.0	1.0	ug/L		05/08/01	SW846 8260B
Chloromethane	< 2.0	2.0	ug/L		05/08/01	SW846 8260B
cis-1,2-Dichloroethene	< 1.0	1.0	ug/L		05/08/01	SW846 8260B
Methylene chloride	< 1.0	1.0	ug/L		05/08/01	SW846 8260B
Tetrachloroethene	2.6	1.0	ug/L		05/08/01	SW846 8260B
trans-1,2-Dichloroethene	< 1.0	1.0	ug/L		05/08/01	SW846 8260B
Trichloroethene	< 1.0	1.0	ug/L		05/08/01	SW846 8260B

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- Analytical Report -

Project Name : MEDLEY  
Project Number : 71243.04  
Field ID : MW4-2  
Lab Sample Number : 911334-004  
Lab Project Number : 911334

Submitter : RMT - GREENVILLE  
Report Date : 05/14/01  
Collection Date : 05/01/01  
Matrix Type : GROUNDWATER  
WI DNR LAB ID : 113172950

**Volatile Organic Results**

SPECIAL VOLATILE LIST - WATER

Prep Method: SW846 5030

Analyte	Result	EQL	Units	Code	Analysis Date	Analysis Method
1,1,1-Trichloroethane	< 1.0	1.0	ug/L		05/08/01	SW846 8260B
1,1,2-Trichloroethane	< 1.0	1.0	ug/L		05/08/01	SW846 8260B
1,1-Dichloroethane	< 1.0	1.0	ug/L		05/08/01	SW846 8260B
1,1-Dichloroethene	2.5	1.0	ug/L		05/08/01	SW846 8260B
1,2-Dichloroethane	< 1.0	1.0	ug/L		05/08/01	SW846 8260B
2-Butanone	< 5.0	5.0	ug/L		05/08/01	SW846 8260B
Acetone	< 5.0	5.0	ug/L		05/08/01	SW846 8260B
Benzene	< 1.0	1.0	ug/L		05/08/01	SW846 8260B
Chloroform	9.0	1.0	ug/L		05/08/01	SW846 8260B
Chloromethane	< 2.0	2.0	ug/L		05/08/01	SW846 8260B
cis-1,2-Dichloroethene	1.4	1.0	ug/L		05/08/01	SW846 8260B
Methylene chloride	< 1.0	1.0	ug/L		05/08/01	SW846 8260B
Tetrachloroethene	41	1.0	ug/L		05/08/01	SW846 8260B
trans-1,2-Dichloroethene	< 1.0	1.0	ug/L		05/08/01	SW846 8260B
Trichloroethene	140	1.0	ug/L		05/08/01	SW846 8260B

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Project Name : MEDLEY

Submitter : RMT - GREENVILLE

Project Number : 71243.04

Report Date : 05/14/01

Field ID : DP3-1

Collection Date : 05/01/01

Lab Sample Number : 911334-005

Matrix Type : GROUNDWATER

Lab Project Number : 911334

WI DNR LAB ID : 113172950

### Volatile Organic Results

#### SPECIAL VOLATILE LIST - WATER

Prep Method: SW846 5030

Analyte	Result	EQL	Units	Code	Analysis Date	Analysis Method
1,1,1-Trichloroethane	6.2	2.0	ug/L		05/08/01	SW846 8260B
1,1,2-Trichloroethane	< 2.0	2.0	ug/L		05/08/01	SW846 8260B
1,1-Dichloroethane	< 2.0	2.0	ug/L		05/08/01	SW846 8260B
1,1-Dichloroethene	22	2.0	ug/L		05/08/01	SW846 8260B
1,2-Dichloroethane	19	2.0	ug/L		05/08/01	SW846 8260B
2-Butanone	< 10	10	ug/L		05/08/01	SW846 8260B
Acetone	< 10	10	ug/L		05/08/01	SW846 8260B
Benzene	< 2.0	2.0	ug/L		05/08/01	SW846 8260B
Chloroform	29	2.0	ug/L		05/08/01	SW846 8260B
Chloromethane	< 4.0	4.0	ug/L		05/08/01	SW846 8260B
cis-1,2-Dichloroethene	2.3	2.0	ug/L		05/08/01	SW846 8260B
Methylene chloride	< 2.0	2.0	ug/L		05/08/01	SW846 8260B
Tetrachloroethene	87	2.0	ug/L		05/08/01	SW846 8260B
trans-1,2-Dichloroethene	< 2.0	2.0	ug/L		05/08/01	SW846 8260B
Trichloroethene	250	2.0	ug/L		05/08/01	SW846 8260B

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**- Analytical Report -**

Project Name : MEDLEY

Submitter : RMT - GREENVILLE

Project Number : 71243.04

Report Date : 05/14/01

Field ID : MLW3-2

Collection Date : 05/02/01

Lab Sample Number : 911334-006

Matrix Type : GROUNDWATER

Lab Project Number : 911334

WI DNR LAB ID : 113172950

**Volatile Organic Results**

**SPECIAL VOLATILE LIST - WATER**

Prep Method: SW846 5030

Analyte	Result	EQL	Units	Code	Analysis Date	Analysis Method
1,1,1-Trichloroethane	< 1.0	1.0	ug/L		05/08/01	SW846 8260B
1,1,2-Trichloroethane	< 1.0	1.0	ug/L		05/08/01	SW846 8260B
1,1-Dichloroethane	< 1.0	1.0	ug/L		05/08/01	SW846 8260B
1,1-Dichloroethene	< 1.0	1.0	ug/L		05/08/01	SW846 8260B
1,2-Dichloroethane	< 1.0	1.0	ug/L		05/08/01	SW846 8260B
2-Butanone	< 5.0	5.0	ug/L		05/08/01	SW846 8260B
Acetone	18	5.0	ug/L		05/08/01	SW846 8260B
Benzene	< 1.0	1.0	ug/L		05/08/01	SW846 8260B
Chloroform	< 1.0	1.0	ug/L		05/08/01	SW846 8260B
Chloromethane	< 2.0	2.0	ug/L		05/08/01	SW846 8260B
cis-1,2-Dichloroethene	< 1.0	1.0	ug/L		05/08/01	SW846 8260B
Methylene chloride	< 1.0	1.0	ug/L		05/08/01	SW846 8260B
Tetrachloroethene	1.8	1.0	ug/L		05/08/01	SW846 8260B
trans-1,2-Dichloroethene	< 1.0	1.0	ug/L		05/08/01	SW846 8260B
Trichloroethene	6.3	1.0	ug/L		05/08/01	SW846 8260B

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Project Name : MEDLEY

Submitter : RMT - GREENVILLE

Project Number : 71243.04

Report Date : 05/14/01

Field ID : MLW3-3

Collection Date : 05/02/01

Lab Sample Number : 911334-007

Matrix Type : GROUNDWATER

Lab Project Number : 911334

WI DNR LAB ID : 113172950

**Volatile Organic Results**

**SPECIAL VOLATILE LIST - WATER**

Prep Method: SW846 5030

Analyte	Result	EQL	Units	Code	Analysis Date	Analysis Method
1,1,1-Trichloroethane	< 1.0	1.0	ug/L		05/08/01	SW846 8260B
1,1,2-Trichloroethane	< 1.0	1.0	ug/L		05/08/01	SW846 8260B
1,1-Dichloroethane	< 1.0	1.0	ug/L		05/08/01	SW846 8260B
1,1-Dichloroethene	< 1.0	1.0	ug/L		05/08/01	SW846 8260B
1,2-Dichloroethane	< 1.0	1.0	ug/L	*	05/08/01	SW846 8260B
2-Butanone	< 5.0	5.0	ug/L		05/08/01	SW846 8260B
Acetone	< 5.0	5.0	ug/L		05/08/01	SW846 8260B
Benzene	< 1.0	1.0	ug/L		05/08/01	SW846 8260B
Chloroform	< 1.0	1.0	ug/L		05/08/01	SW846 8260B
Chloromethane	< 2.0	2.0	ug/L		05/08/01	SW846 8260B
cis-1,2-Dichloroethene	< 1.0	1.0	ug/L		05/08/01	SW846 8260B
Methylene chloride	< 1.0	1.0	ug/L		05/08/01	SW846 8260B
Tetrachloroethene	< 1.0	1.0	ug/L		05/08/01	SW846 8260B
trans-1,2-Dichloroethene	< 1.0	1.0	ug/L		05/08/01	SW846 8260B
Trichloroethene	< 1.0	1.0	ug/L		05/08/01	SW846 8260B

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**- Analytical Report -**

Project Name : MEDLEY

Submitter : RMT - GREENVILLE

Project Number : 71243.04

Report Date : 05/14/01

Field ID : MW2-2

Collection Date : 05/02/01

Lab Sample Number : 911334-008

Matrix Type : GROUNDWATER

Lab Project Number : 911334

WI DNR LAB ID : 113172950

**Volatile Organic Results**

**SPECIAL VOLATILE LIST - WATER**

Prep Method: SW846 5030

Analyte	Result	EQL	Units	Code	Analysis Date	Analysis Method
1,1,1-Trichloroethane	1.5	1.0	ug/L		05/08/01	SW846 8260B
1,1,2-Trichloroethane	< 1.0	1.0	ug/L		05/08/01	SW846 8260B
1,1-Dichloroethane	< 1.0	1.0	ug/L		05/08/01	SW846 8260B
1,1-Dichloroethene	4.5	1.0	ug/L		05/08/01	SW846 8260B
1,2-Dichloroethane	2.2	1.0	ug/L		05/08/01	SW846 8260B
2-Butanone	< 5.0	5.0	ug/L		05/08/01	SW846 8260B
Acetone	< 5.0	5.0	ug/L		05/08/01	SW846 8260B
Benzene	< 1.0	1.0	ug/L		05/08/01	SW846 8260B
Chloroform	3.3	1.0	ug/L		05/08/01	SW846 8260B
Chloromethane	< 2.0	2.0	ug/L		05/08/01	SW846 8260B
cis-1,2-Dichloroethene	3.6	1.0	ug/L		05/08/01	SW846 8260B
Methylene chloride	< 1.0	1.0	ug/L		05/08/01	SW846 8260B
Tetrachloroethene	21	1.0	ug/L		05/08/01	SW846 8260B
trans-1,2-Dichloroethene	< 1.0	1.0	ug/L		05/08/01	SW846 8260B
Trichloroethene	57	1.0	ug/L		05/08/01	SW846 8260B

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- Analytical Report -

Project Name : MEDLEY

Submitter : RMT - GREENVILLE

Project Number : 71243.04

Report Date : 05/14/01

Field ID : MW2-1

Collection Date : 05/02/01

Lab Sample Number : 911334-009

Matrix Type : GROUNDWATER

Lab Project Number : 911334

WI DNR LAB ID : 113172950

**Volatile Organic Results**

SPECIAL VOLATILE LIST - WATER

Prep Method: SW846 5030

Analyte	Result	EQL	Units	Code	Analysis Date	Analysis Method
1,1,1-Trichloroethane	1.1	1.0	ug/L		05/08/01	SW846 8260B
1,1,2-Trichloroethane	< 1.0	1.0	ug/L		05/08/01	SW846 8260B
1,1-Dichloroethane	< 1.0	1.0	ug/L		05/08/01	SW846 8260B
1,1-Dichloroethene	13	1.0	ug/L		05/08/01	SW846 8260B
1,2-Dichloroethane	2.4	1.0	ug/L		05/08/01	SW846 8260B
2-Butanone	< 5.0	5.0	ug/L		05/08/01	SW846 8260B
Acetone	< 5.0	5.0	ug/L		05/08/01	SW846 8260B
Benzene	< 1.0	1.0	ug/L		05/08/01	SW846 8260B
Chloroform	1.2	1.0	ug/L		05/08/01	SW846 8260B
Chloromethane	< 2.0	2.0	ug/L		05/08/01	SW846 8260B
cis-1,2-Dichloroethene	1.3	1.0	ug/L		05/08/01	SW846 8260B
Methylene chloride	< 1.0	1.0	ug/L		05/08/01	SW846 8260B
Tetrachloroethene	15	1.0	ug/L		05/08/01	SW846 8260B
trans-1,2-Dichloroethene	< 1.0	1.0	ug/L		05/08/01	SW846 8260B
Trichloroethene	26	1.0	ug/L		05/08/01	SW846 8260B

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**- Analytical Report -**

Project Name : MEDLEY

Submitter : RMT - GREENVILLE

Project Number : 71243.04

Report Date : 05/14/01

Field ID : DU-01201

Collection Date :

Lab Sample Number : 911334-010

Matrix Type : GROUNDWATER

Lab Project Number : 911334

WI DNR LAB ID : 113172950

**Volatile Organic Results**

**SPECIAL VOLATILE LIST - WATER**

Prep Method: SW846 5030

Analyte	Result	EQL	Units	Code	Analysis Date	Analysis Method
1,1,1-Trichloroethane	6.3	2.0	ug/L		05/08/01	SW846 8260B
1,1,2-Trichloroethane	< 2.0	2.0	ug/L		05/08/01	SW846 8260B
1,1-Dichloroethane	< 2.0	2.0	ug/L		05/08/01	SW846 8260B
1,1-Dichloroethene	22	2.0	ug/L		05/08/01	SW846 8260B
1,2-Dichloroethane	21	2.0	ug/L		05/08/01	SW846 8260B
2-Butanone	< 10	10	ug/L		05/08/01	SW846 8260B
Acetone	< 10	10	ug/L		05/08/01	SW846 8260B
Benzene	< 2.0	2.0	ug/L		05/08/01	SW846 8260B
Chloroform	27	2.0	ug/L		05/08/01	SW846 8260B
Chloromethane	< 4.0	4.0	ug/L		05/08/01	SW846 8260B
cis-1,2-Dichloroethene	2.3	2.0	ug/L		05/08/01	SW846 8260B
Methylene chloride	< 2.0	2.0	ug/L		05/08/01	SW846 8260B
Tetrachloroethene	83	2.0	ug/L		05/08/01	SW846 8260B
trans-1,2-Dichloroethene	< 2.0	2.0	ug/L		05/08/01	SW846 8260B
Trichloroethene	240	2.0	ug/L		05/08/01	SW846 8260B

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**- Analytical Report -**

**Project Name :** MEDLEY

**Submitter :** RMT - GREENVILLE

**Project Number :** 71243.04

**Report Date :** 05/14/01

**Field ID :** BW-108

**Collection Date :** 05/02/01

**Lab Sample Number :** 911334-011

**Matrix Type :** GROUNDWATER

**Lab Project Number :** 911334

**WI DNR LAB ID :** 113172950

**Volatile Organic Results**

**SPECIAL VOLATILE LIST - WATER**

**Prep Method:** SW846 5030

Analyte	Result	EQL	Units	Code	Analysis Date	Analysis Method
1,1,1-Trichloroethane	< 1.0	1.0	ug/L		05/08/01	SW846 8260B
1,1,2-Trichloroethane	< 1.0	1.0	ug/L		05/08/01	SW846 8260B
1,1-Dichloroethane	< 1.0	1.0	ug/L		05/08/01	SW846 8260B
1,1-Dichloroethene	< 1.0	1.0	ug/L		05/08/01	SW846 8260B
1,2-Dichloroethane	< 1.0	1.0	ug/L		05/08/01	SW846 8260B
2-Butanone	< 5.0	5.0	ug/L		05/08/01	SW846 8260B
Acetone	< 5.0	5.0	ug/L		05/08/01	SW846 8260B
Benzene	< 1.0	1.0	ug/L		05/08/01	SW846 8260B
Chloroform	< 1.0	1.0	ug/L		05/08/01	SW846 8260B
Chloromethane	< 2.0	2.0	ug/L		05/08/01	SW846 8260B
cis-1,2-Dichloroethene	< 1.0	1.0	ug/L		05/08/01	SW846 8260B
Methylene chloride	< 1.0	1.0	ug/L		05/08/01	SW846 8260B
Tetrachloroethene	4.1	1.0	ug/L		05/08/01	SW846 8260B
trans-1,2-Dichloroethene	< 1.0	1.0	ug/L		05/08/01	SW846 8260B
Trichloroethene	4.6	1.0	ug/L		05/08/01	SW846 8260B

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**- Analytical Report -**

Project Name : MEDLEY

Submitter : RMT - GREENVILLE

Project Number : 71243.04

Report Date : 05/14/01

Field ID : FBLK-01201

Collection Date : 05/02/01

Lab Sample Number : 911334-012

Matrix Type : GROUNDWATER

Lab Project Number : 911334

WI DNR LAB ID : 113172950

**Volatile Organic Results**

**SPECIAL VOLATILE LIST - WATER**

Prep Method: SW846 5030

Analyte	Result	EQL	Units	Code	Analysis Date	Analysis Method
1,1,1-Trichloroethane	< 1.0	1.0	ug/L		05/08/01	SW846 8260B
1,1,2-Trichloroethane	< 1.0	1.0	ug/L		05/08/01	SW846 8260B
1,1-Dichloroethane	< 1.0	1.0	ug/L		05/08/01	SW846 8260B
1,1-Dichloroethene	< 1.0	1.0	ug/L		05/08/01	SW846 8260B
1,2-Dichloroethane	< 1.0	1.0	ug/L		05/08/01	SW846 8260B
2-Butanone	< 5.0	5.0	ug/L		05/08/01	SW846 8260B
Acetone	< 5.0	5.0	ug/L		05/08/01	SW846 8260B
Benzene	< 1.0	1.0	ug/L		05/08/01	SW846 8260B
Chloroform	< 1.0	1.0	ug/L		05/08/01	SW846 8260B
Chloromethane	< 2.0	2.0	ug/L		05/08/01	SW846 8260B
cis-1,2-Dichloroethene	< 1.0	1.0	ug/L		05/08/01	SW846 8260B
Methylene chloride	< 1.0	1.0	ug/L		05/08/01	SW846 8260B
Tetrachloroethene	< 1.0	1.0	ug/L		05/08/01	SW846 8260B
trans-1,2-Dichloroethene	< 1.0	1.0	ug/L		05/08/01	SW846 8260B
Trichloroethene	< 1.0	1.0	ug/L		05/08/01	SW846 8260B

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**- Analytical Report -**

Project Name : MEDLEY

Submitter : RMT - GREENVILLE

Project Number : 71243.04

Report Date : 05/14/01

Field ID : MW4-1

Collection Date : 05/02/01

Lab Sample Number : 911334-013

Matrix Type : GROUNDWATER

Lab Project Number : 911334

WI DNR LAB ID : 113172950

**Volatile Organic Results**

**SPECIAL VOLATILE LIST - WATER**

Prep Method: SW846 5030

Analyte	Result	EQL	Units	Code	Analysis Date	Analysis Method
1,1,1-Trichloroethane	< 2.0	2.0	ug/L		05/08/01	SW846 8260B
1,1,2-Trichloroethane	< 2.0	2.0	ug/L		05/08/01	SW846 8260B
1,1-Dichloroethane	< 2.0	2.0	ug/L		05/08/01	SW846 8260B
1,1-Dichloroethene	4.1	2.0	ug/L		05/08/01	SW846 8260B
1,2-Dichloroethane	< 2.0	2.0	ug/L		05/08/01	SW846 8260B
2-Butanone	< 10	10	ug/L		05/08/01	SW846 8260B
Acetone	< 10	10	ug/L		05/08/01	SW846 8260B
Benzene	< 2.0	2.0	ug/L		05/08/01	SW846 8260B
Chloroform	48	2.0	ug/L		05/08/01	SW846 8260B
Chloromethane	< 4.0	4.0	ug/L		05/08/01	SW846 8260B
cis-1,2-Dichloroethene	< 2.0	2.0	ug/L		05/08/01	SW846 8260B
Methylene chloride	< 2.0	2.0	ug/L		05/08/01	SW846 8260B
Tetrachloroethene	84	2.0	ug/L		05/08/01	SW846 8260B
trans-1,2-Dichloroethene	< 2.0	2.0	ug/L		05/08/01	SW846 8260B
Trichloroethene	170	2.0	ug/L		05/08/01	SW846 8260B

### Organic Data Qualifier Sheet

- B Analyte is present in the method blank. Method blank criteria is evaluated to the laboratory LOD. Additionally, method blank acceptance may be based on project specific criteria or determined from analyte concentrations in the sample and are evaluated on a sample by sample basis.
- C Elevated detection limit (see Sample Narrative).
- D Analyte value from diluted analysis.
- DL No surrogate recovery available due to sample dilution.
- E Analyte concentration exceeds calibration range (see Sample Narrative).
- F Repeated surrogate failure (see Sample Narrative).
- G Sample exhibits hydrocarbon pattern resembling gasoline.
- H(n) Analysis performed "n" days past holding time.
- J Qualitative evidence of analyte present: concentration detected is greater than the method detection limit but less than the reporting limit.
- K Detection Limit may be elevated due to the presence of an unrequested analyte (see Sample Narrative).
- L Detects in trip blank.
- M Methanol leakage.
- N Spiked sample recovery not within control limits.
- ND Not Detected.
- NR Not Required.
- P The relative percent difference for detected concentrations between the two GC columns was greater than 40% difference.
- Q The analyte has been detected between the Limit of Detection (LOD) and limit of Quantitation (LOQ). The results are qualified due to the uncertainty of analyte concentrations within this range.
- U# Elevated LOD due to matrix interference.
- V Heavy hydrocarbon present.
- W Sample received with headspace.
- X See Sample Narrative
- Z See Sample Narrative
- SUB Assay was subcontracted to En Chem Green Bay WI Cert. # : 405132750.
- & Laboratory Control Spike recovery not within control limits (See Sample Narrative).
- \*
- Duplicate analyses not within control limits.

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Project Name: MEDLEY

Project Number: 71243.04

RMT - GREENVILLE

ATTN: *Mark Bailey*  
100 VERDAE BLVD (29607)

GREENVILLE

SC 29606

Attached are the following for Batch Number: 910836

Organic

Inorganic

QC Data

Diskette

Ship By:  First Class Mail  FedEx

Priority Mail  Other: \_\_\_\_\_

Comments:

QC - JWB, 4-15-01: HTI temp, CIC, method, & & , blanks -  
level 3 QC ✓  
- dup RPD ✓  
- MS/MSD dup RPD OCL for 111-TCA - no hits, no qualifications

If you have any questions please call your Client Manager: Kevin Hinckley

DW-01101 / MWZ-2



# CHAIN OF CUSTODY RECORD

No 071026

100 Verdae Boulevard, P.O. Box 16778 • Greenville, SC 29606-6778 • Phone (864) 281-0030 • Fax (864) 281-0288

Project No. 71243.04	Project/Client: Medley			Total Number Of Containers	MATRIX	Filtered (Yes/No) N	Preserved (Code) E	Comments:
Project Manager/Contact Person: Steve Webb/M. Bailey			Analyses Requested VOC 8260					
Lab No. 910836	Yr. 01	Date	Time	Sample Station ID				
-001	—	—	TBLC-01101	3	DI	3		
-002	3/19	1330	MLW3-1	3	GW	3		
-003	—	1400	MLW3-2	3	—	3		
-004	—	1425	MLW3-3	3	—	3		
-005	3/21	1030	BW-201	3	—	3		
-006	—	1135	BW-202	3	—	3		
-007	—	1340	MW4-2	3	—	3		
-008	3/22	1145	MW2-2	3	—	3		
-009	3/22	1400	MW2-1	3	—	3		
-010	—	—	DU-01101	3	—	3		

## SPECIAL INSTRUCTIONS

65009344374

SAMPLER Relinquished by (Sig.) 	Date/Time 3-23-01	Received by (Sig.) Airborne	Date/Time 3-23-01	HAZARDS ASSOCIATED WITH SAMPLES <input type="checkbox"/> Flammable <input type="checkbox"/> Corrosive <input type="checkbox"/> Highly Toxic <input type="checkbox"/> Other (list) _____	Turn Around (circle one) Normal	Rush
Relinquished by (Sig.) Airborne	Date/Time 3/24/01 0930	Received by (Sig.) 	Date/Time 3/24/01 0930		Report Due _____	(For Lab Use Only)
Relinquished by (Sig.) —	Date/Time —	Received by (Sig.) 	Date/Time —		Receipt Temp: Temp Blank Y N	Receipt pH (Wet/Metals) NA
Custody Seal: Present/Absent <input checked="" type="radio"/> Intact/Not Intact <input checked="" type="radio"/> Seal #'s				4°C LOI		



## **CHAIN OF CUSTODY RECORD**

Nº 071027

100 Verdae Boulevard, P.O. Box 16778 • Greenville, SC 29606-6778 • Phone (864) 281-0030 • Fax (864) 281-0288

Project No. 71243.04	Project/Client: Medley
Project Manager/Contact Person: Steve Webb / M. Bailey	

**SPECIAL INSTRUCTIONS**

SAMPLER Relinquished by (Sig.) <i>J. D. O.</i>	Date/Time 3-23-01	Received by (Sig.) Airborne	Date/Time 3-23-01	HAZARDS ASSOCIATED WITH SAMPLES <input type="checkbox"/> Flammable <input type="checkbox"/> Corrosive <input type="checkbox"/> Highly Toxic <input type="checkbox"/> Other (list) _____	Turn Around (circle one) Normal	Rush
Relinquished by (Sig.) Airborne	Date/Time 3/24/01 0930	Received by (Sig.) <i>Kathy J. W.</i>	Date/Time 3/24/01 09'30		Report Due _____	(For Lab Use Only)
Relinquished by (Sig.)	Date/Time	Received by (Sig.)	Date/Time		Receipt Temp: Temp Blank Y <input checked="" type="radio"/> N <i>4°C LLS</i>	Receipt pH (Wet/Metals) <i>NA</i>
Custody Seal: Present/Absent <input checked="" type="radio"/> Intact/Not Intact <input checked="" type="radio"/>		Seal #'s				

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### - Analytical Report -

Project Name : MEDLEY

Client : RMT - GREENVILLE

Project Number : 71243.04

Report Date : 04/03/01

WI DNR LAB ID : 113172950

Lab Sample No.	Field ID	Collection Date	Lab Sample No.	Field ID	Collection Date
910836-001	TBLK-01101	03/19/01			
910836-002	MLW3-1	03/19/01			
910836-003	MLW3-2	03/19/01			
910836-004	MLW3-3	03/19/01			
910836-005	BW-201	03/21/01			
910836-006	BW-202	03/21/01			
910836-007	MW4-2	03/21/01			
910836-008	MW2-2	03/22/01			
910836-009	MW2-1	03/22/01			
910836-010	DU-01101				
910836-011	FBLK-01101	03/22/01			
910836-012	MW4-1	03/22/01			
910836-013	BW-108	03/22/01			
910836-014	DP3-1	03/22/01			

I certify that the data contained in this Final Report has been generated and reviewed in accordance with approved methods and Laboratory Standard Operating Procedure. Exceptions, if any, are discussed in the accompanying sample narrative. Release of this final report is authorized by Laboratory management, as is verified by the following signature.

Approval Signature

Date

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**- Analytical Report -**

Project Name : MEDLEY

Submitter : RMT - GREENVILLE

Project Number : 71243.04

Report Date : 04/03/01

Field ID : TBLK-01101

Collection Date : 03/19/01

Lab Sample Number : 910836-001

Matrix Type : BLANK

Lab Project Number : 910836

WI DNR LAB ID : 113172950

**Volatile Organic Results**

**SPECIAL VOLATILE LIST - WATER**

Prep Method: SW846 5030

Analyte	Result	EQL	Units	Code	Analysis Date	Analysis Method
1,1,1-Trichloroethane	< 1.0	1.0	ug/L		03/28/01	SW846 8260B
1,1,2-Trichloroethane	< 1.0	1.0	ug/L		03/28/01	SW846 8260B
1,1-Dichloroethane	< 1.0	1.0	ug/L		03/28/01	SW846 8260B
1,1-Dichloroethene	< 1.0	1.0	ug/L		03/28/01	SW846 8260B
1,2-Dichloroethane	< 1.0	1.0	ug/L		03/28/01	SW846 8260B
2-Butanone	< 5.0	5.0	ug/L		03/28/01	SW846 8260B
Acetone	< 5.0	5.0	ug/L		03/28/01	SW846 8260B
Benzene	< 1.0	1.0	ug/L		03/28/01	SW846 8260B
Chloroform	< 1.0	1.0	ug/L		03/28/01	SW846 8260B
Chloromethane	< 2.0	2.0	ug/L		03/28/01	SW846 8260B
cis-1,2-Dichloroethene	< 1.0	1.0	ug/L		03/28/01	SW846 8260B
Methylene chloride	< 1.0	1.0	ug/L		03/28/01	SW846 8260B
Tetrachloroethene	< 1.0	1.0	ug/L		03/28/01	SW846 8260B
trans-1,2-Dichloroethene	< 1.0	1.0	ug/L		03/28/01	SW846 8260B
Trichloroethene	< 1.0	1.0	ug/L		03/28/01	SW846 8260B

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**- Analytical Report -**

Project Name : MEDLEY

Submitter : RMT - GREENVILLE

Project Number : 71243.04

Report Date : 04/03/01

Field ID : MLW3-1

Collection Date : 03/19/01

Lab Sample Number : 910836-002

Matrix Type : WATER

Lab Project Number : 910836

WI DNR LAB ID : 113172950

**Volatile Organic Results**

**SPECIAL VOLATILE LIST - WATER**

Prep Method: SW846 5030

Analyte	Result	EQL	Units	Code	Analysis Date	Analysis Method
1,1,1-Trichloroethane	< 1.0	1.0	ug/L		03/28/01	SW846 8260B
1,1,2-Trichloroethane	< 1.0	1.0	ug/L		03/28/01	SW846 8260B
1,1-Dichloroethane	< 1.0	1.0	ug/L		03/28/01	SW846 8260B
1,1-Dichloroethene	0.57	1.0	ug/L	J	03/28/01	SW846 8260B
1,2-Dichloroethane	< 1.0	1.0	ug/L		03/28/01	SW846 8260B
2-Butanone	23	5.0	ug/L		03/28/01	SW846 8260B
Acetone	88	5.0	ug/L		03/28/01	SW846 8260B
Benzene	< 1.0	1.0	ug/L		03/28/01	SW846 8260B
Chloroform	< 1.0	1.0	ug/L		03/28/01	SW846 8260B
Chloromethane	< 2.0	2.0	ug/L		03/28/01	SW846 8260B
cis-1,2-Dichloroethene	< 1.0	1.0	ug/L		03/28/01	SW846 8260B
Methylene chloride	< 1.0	1.0	ug/L		03/28/01	SW846 8260B
Tetrachloroethene	2.8	1.0	ug/L		03/28/01	SW846 8260B
trans-1,2-Dichloroethene	< 1.0	1.0	ug/L		03/28/01	SW846 8260B
Trichloroethene	8.8	1.0	ug/L		03/28/01	SW846 8260B

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**- Analytical Report -**

Project Name : MEDLEY

Submitter : RMT - GREENVILLE

Project Number : 71243.04

Report Date : 04/03/01

Field ID : MLW3-2

Collection Date : 03/19/01

Lab Sample Number : 910836-003

Matrix Type : WATER

Lab Project Number : 910836

WI DNR LAB ID : 113172950

**Volatile Organic Results**

**SPECIAL VOLATILE LIST - WATER**

Prep Method: SW846 5030

Analyte	Result	EQL	Units	Code	Analysis Date	Analysis Method
1,1,1-Trichloroethane	< 1.0	1.0	ug/L	*	03/28/01	SW846 8260B
1,1,2-Trichloroethane	< 1.0	1.0	ug/L		03/28/01	SW846 8260B
1,1-Dichloroethane	< 1.0	1.0	ug/L		03/28/01	SW846 8260B
1,1-Dichloroethene	< 1.0	1.0	ug/L		03/28/01	SW846 8260B
1,2-Dichloroethane	< 1.0	1.0	ug/L		03/28/01	SW846 8260B
2-Butanone	8.8	5.0	ug/L		03/28/01	SW846 8260B
Acetone	25	5.0	ug/L		03/28/01	SW846 8260B
Benzene	< 1.0	1.0	ug/L		03/28/01	SW846 8260B
Chloroform	0.42	1.0	ug/L	J	03/28/01	SW846 8260B
Chloromethane	< 2.0	2.0	ug/L		03/28/01	SW846 8260B
cis-1,2-Dichloroethene	0.47	1.0	ug/L	J	03/28/01	SW846 8260B
Methylene chloride	< 1.0	1.0	ug/L		03/28/01	SW846 8260B
Tetrachloroethene	2.0	1.0	ug/L		03/28/01	SW846 8260B
trans-1,2-Dichloroethene	< 1.0	1.0	ug/L		03/28/01	SW846 8260B
Trichloroethene	7.6	1.0	ug/L		03/28/01	SW846 8260B

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**- Analytical Report -**

Project Name : MEDLEY

Submitter : RMT - GREENVILLE

Project Number : 71243.04

Report Date : 04/03/01

Field ID : MLW3-3

Collection Date : 03/19/01

Lab Sample Number : 910836-004

Matrix Type : WATER

Lab Project Number : 910836

WI DNR LAB ID : 113172950

**Volatile Organic Results**

**SPECIAL VOLATILE LIST - WATER**

Prep Method: SW846 5030

Analyte	Result	EQL	Units	Code	Analysis Date	Analysis Method
1,1,1-Trichloroethane	< 1.0	1.0	ug/L	*	03/28/01	SW846 8260B
1,1,2-Trichloroethane	< 1.0	1.0	ug/L		03/28/01	SW846 8260B
1,1-Dichloroethane	< 1.0	1.0	ug/L		03/28/01	SW846 8260B
1,1-Dichloroethene	0.64	1.0	ug/L	J	03/28/01	SW846 8260B
1,2-Dichloroethane	< 1.0	1.0	ug/L		03/28/01	SW846 8260B
2-Butanone	< 5.0	5.0	ug/L		03/28/01	SW846 8260B
Acetone	< 5.0	5.0	ug/L		03/28/01	SW846 8260B
Benzene	< 1.0	1.0	ug/L		03/28/01	SW846 8260B
Chloroform	< 1.0	1.0	ug/L		03/28/01	SW846 8260B
Chloromethane	< 2.0	2.0	ug/L		03/28/01	SW846 8260B
cis-1,2-Dichloroethene	0.48	1.0	ug/L	J	03/28/01	SW846 8260B
Methylene chloride	< 1.0	1.0	ug/L		03/28/01	SW846 8260B
Tetrachloroethene	2.1	1.0	ug/L		03/28/01	SW846 8260B
trans-1,2-Dichloroethene	< 1.0	1.0	ug/L		03/28/01	SW846 8260B
Trichloroethene	8.6	1.0	ug/L		03/28/01	SW846 8260B

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**- Analytical Report -**

Project Name : MEDLEY

Submitter : RMT - GREENVILLE

Project Number : 71243.04

Report Date : 04/03/01

Field ID : BW-201

Collection Date : 03/21/01

Lab Sample Number : 910836-005

Matrix Type : WATER

Lab Project Number : 910836

WI DNR LAB ID : 113172950

**Volatile Organic Results**

**SPECIAL VOLATILE LIST - WATER**

Prep Method: SW846 5030

Analyte	Result	EQL	Units	Code	Analysis Date	Analysis Method
1,1,1-Trichloroethane	< 1.0	1.0	ug/L		03/28/01	SW846 8260B
1,1,2-Trichloroethane	< 1.0	1.0	ug/L		03/28/01	SW846 8260B
1,1-Dichloroethane	< 1.0	1.0	ug/L		03/28/01	SW846 8260B
1,1-Dichloroethene	0.47	1.0	ug/L	J	03/28/01	SW846 8260B
1,2-Dichloroethane	< 1.0	1.0	ug/L		03/28/01	SW846 8260B
2-Butanone	< 5.0	5.0	ug/L		03/28/01	SW846 8260B
Acetone	< 5.0	5.0	ug/L		03/28/01	SW846 8260B
Benzene	< 1.0	1.0	ug/L		03/28/01	SW846 8260B
Chloroform	< 1.0	1.0	ug/L		03/28/01	SW846 8260B
Chloromethane	< 2.0	2.0	ug/L		03/28/01	SW846 8260B
cis-1,2-Dichloroethene	1.4	1.0	ug/L		03/28/01	SW846 8260B
Methylene chloride	< 1.0	1.0	ug/L		03/28/01	SW846 8260B
Tetrachloroethene	3.0	1.0	ug/L		03/28/01	SW846 8260B
trans-1,2-Dichloroethene	< 1.0	1.0	ug/L		03/28/01	SW846 8260B
Trichloroethene	5.0	1.0	ug/L		03/28/01	SW846 8260B

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**- Analytical Report -**

Project Name : MEDLEY

Submitter : RMT - GREENVILLE

Project Number : 71243.04

Report Date : 04/03/01

Field ID : BW-202

Collection Date : 03/21/01

Lab Sample Number : 910836-006

Matrix Type : WATER

Lab Project Number : 910836

WI DNR LAB ID : 113172950

**Volatile Organic Results**

**SPECIAL VOLATILE LIST - WATER**

Prep Method: SW846 5030

Analyte	Result	EQL	Units	Code	Analysis Date	Analysis Method
1,1,1-Trichloroethane	< 1.0	1.0	ug/L	*	03/28/01	SW846 8260B
1,1,2-Trichloroethane	< 1.0	1.0	ug/L		03/28/01	SW846 8260B
1,1-Dichloroethane	< 1.0	1.0	ug/L		03/28/01	SW846 8260B
1,1-Dichloroethene	< 1.0	1.0	ug/L		03/28/01	SW846 8260B
1,2-Dichloroethane	< 1.0	1.0	ug/L		03/28/01	SW846 8260B
2-Butanone	< 5.0	5.0	ug/L		03/28/01	SW846 8260B
Acetone	< 5.0	5.0	ug/L		03/28/01	SW846 8260B
Benzene	< 1.0	1.0	ug/L		03/28/01	SW846 8260B
Chloroform	< 1.0	1.0	ug/L		03/28/01	SW846 8260B
Chloromethane	< 2.0	2.0	ug/L		03/28/01	SW846 8260B
cis-1,2-Dichloroethene	< 1.0	1.0	ug/L		03/28/01	SW846 8260B
Methylene chloride	< 1.0	1.0	ug/L		03/28/01	SW846 8260B
Tetrachloroethene	3.3	1.0	ug/L		03/28/01	SW846 8260B
trans-1,2-Dichloroethene	< 1.0	1.0	ug/L		03/28/01	SW846 8260B
Trichloroethene	1.1	1.0	ug/L		03/28/01	SW846 8260B

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**- Analytical Report -**

Project Name : MEDLEY

Submitter : RMT - GREENVILLE

Project Number : 71243.04

Report Date : 04/03/01

Field ID : MW4-2

Collection Date : 03/21/01

Lab Sample Number : 910836-007

Matrix Type : WATER

Lab Project Number : 910836

WI DNR LAB ID : 113172950

**Volatile Organic Results**

**SPECIAL VOLATILE LIST - WATER**

Prep Method: SW846 5030

Analyte	Result	EQL	Units	Code	Analysis Date	Analysis Method
1,1,1-Trichloroethane	< 1.0	1.0	ug/L	*	03/28/01	SW846 8260B
1,1,2-Trichloroethane	0.65	1.0	ug/L	J	03/28/01	SW846 8260B
1,1-Dichloroethane	< 1.0	1.0	ug/L		03/28/01	SW846 8260B
1,1-Dichloroethene	2.4	1.0	ug/L		03/28/01	SW846 8260B
1,2-Dichloroethane	0.74	1.0	ug/L	J	03/28/01	SW846 8260B
2-Butanone	< 5.0	5.0	ug/L		03/28/01	SW846 8260B
Acetone	< 5.0	5.0	ug/L		03/28/01	SW846 8260B
Benzene	< 1.0	1.0	ug/L		03/28/01	SW846 8260B
Chloroform	11	1.0	ug/L		03/28/01	SW846 8260B
Chloromethane	< 2.0	2.0	ug/L		03/28/01	SW846 8260B
cis-1,2-Dichloroethene	1.8	1.0	ug/L		03/28/01	SW846 8260B
Methylene chloride	< 1.0	1.0	ug/L		03/28/01	SW846 8260B
Tetrachloroethene	40	1.0	ug/L		03/28/01	SW846 8260B
trans-1,2-Dichloroethene	< 1.0	1.0	ug/L		03/28/01	SW846 8260B
Trichloroethene	160	1.0	ug/L		03/28/01	SW846 8260B

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**- Analytical Report -**

Project Name : MEDLEY

Submitter : RMT - GREENVILLE

Project Number : 71243.04

Report Date : 04/03/01

Field ID : MW2-2

Collection Date : 03/22/01

Lab Sample Number : 910836-008

Matrix Type : WATER

Lab Project Number : 910836

WI DNR LAB ID : 113172950

**Volatile Organic Results**

**SPECIAL VOLATILE LIST - WATER**

Prep Method: SW846 5030

Analyte	Result	EQL	Units	Code	Analysis Date	Analysis Method
1,1,1-Trichloroethane	< 1.0	1.0	ug/L	*	03/28/01	SW846 8260B
1,1,2-Trichloroethane	< 1.0	1.0	ug/L		03/28/01	SW846 8260B
1,1-Dichloroethane	0.67	1.0	ug/L	J	03/28/01	SW846 8260B
1,1-Dichloroethene	4.2	1.0	ug/L		03/28/01	SW846 8260B
1,2-Dichloroethane	2.5	1.0	ug/L		03/28/01	SW846 8260B
2-Butanone	< 5.0	5.0	ug/L		03/28/01	SW846 8260B
Acetone	< 5.0	5.0	ug/L		03/28/01	SW846 8260B
Benzene	< 1.0	1.0	ug/L		03/28/01	SW846 8260B
Chloroform	4.0	1.0	ug/L		03/28/01	SW846 8260B
Chloromethane	< 2.0	2.0	ug/L		03/28/01	SW846 8260B
cis-1,2-Dichloroethene	3.6	1.0	ug/L		03/28/01	SW846 8260B
Methylene chloride	< 1.0	1.0	ug/L		03/28/01	SW846 8260B
Tetrachloroethene	18	1.0	ug/L		03/28/01	SW846 8260B
trans-1,2-Dichloroethene	< 1.0	1.0	ug/L		03/28/01	SW846 8260B
Trichloroethene	60	1.0	ug/L		03/28/01	SW846 8260B

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**- Analytical Report -**

Project Name : MEDLEY

Submitter : RMT - GREENVILLE

Project Number : 71243.04

Report Date : 04/03/01

Field ID : MW2-1

Collection Date : 03/22/01

Lab Sample Number : 910836-009

Matrix Type : WATER

Lab Project Number : 910836

WI DNR LAB ID : 113172950

**Volatile Organic Results**

**SPECIAL VOLATILE LIST - WATER**

Prep Method: SW846 5030

Analyte	Result	EQL	Units	Code	Analysis Date	Analysis Method
1,1,1-Trichloroethane	< 1.0	1.0	ug/L	*	03/28/01	SW846 8260B
1,1,2-Trichloroethane	< 1.0	1.0	ug/L		03/28/01	SW846 8260B
1,1-Dichloroethane	0.79	1.0	ug/L	J	03/28/01	SW846 8260B
1,1-Dichloroethene	14	1.0	ug/L		03/28/01	SW846 8260B
1,2-Dichloroethane	2.9	1.0	ug/L		03/28/01	SW846 8260B
2-Butanone	< 5.0	5.0	ug/L		03/28/01	SW846 8260B
Acetone	< 5.0	5.0	ug/L		03/28/01	SW846 8260B
Benzene	< 1.0	1.0	ug/L		03/28/01	SW846 8260B
Chloroform	1.4	1.0	ug/L		03/28/01	SW846 8260B
Chloromethane	< 2.0	2.0	ug/L		03/28/01	SW846 8260B
cis-1,2-Dichloroethene	1.4	1.0	ug/L		03/28/01	SW846 8260B
Methylene chloride	< 1.0	1.0	ug/L		03/28/01	SW846 8260B
Tetrachloroethene	16	1.0	ug/L		03/28/01	SW846 8260B
trans-1,2-Dichloroethene	< 1.0	1.0	ug/L		03/28/01	SW846 8260B
Trichloroethene	32	1.0	ug/L		03/28/01	SW846 8260B

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**- Analytical Report -**

Project Name : MEDLEY

Submitter : RMT - GREENVILLE

Project Number : 71243.04

Report Date : 04/03/01

Field ID : DU-01101

Collection Date :

Lab Sample Number : 910836-010

Matrix Type : WATER

Lab Project Number : 910836

WI DNR LAB ID : 113172950

**Volatile Organic Results**

**SPECIAL VOLATILE LIST - WATER**

Prep Method: SW846 5030

Analyte	Result	EQL	Units	Code	Analysis Date	Analysis Method
1,1,1-Trichloroethane	< 1.0	1.0	ug/L	*	03/28/01	SW846 8260B
1,1,2-Trichloroethane	< 1.0	1.0	ug/L		03/28/01	SW846 8260B
1,1-Dichloroethane	< 1.0	1.0	ug/L		03/28/01	SW846 8260B
1,1-Dichloroethene	3.8	1.0	ug/L		03/28/01	SW846 8260B
1,2-Dichloroethane	2.4	1.0	ug/L		03/28/01	SW846 8260B
2-Butanone	< 5.0	5.0	ug/L		03/28/01	SW846 8260B
Acetone	< 5.0	5.0	ug/L		03/28/01	SW846 8260B
Benzene	< 1.0	1.0	ug/L		03/28/01	SW846 8260B
Chloroform	3.8	1.0	ug/L		03/28/01	SW846 8260B
Chloromethane	< 2.0	2.0	ug/L		03/28/01	SW846 8260B
cis-1,2-Dichloroethene	3.5	1.0	ug/L		03/28/01	SW846 8260B
Methylene chloride	< 1.0	1.0	ug/L		03/28/01	SW846 8260B
Tetrachloroethene	18	1.0	ug/L		03/28/01	SW846 8260B
trans-1,2-Dichloroethene	< 1.0	1.0	ug/L		03/28/01	SW846 8260B
Trichloroethene	59	1.0	ug/L		03/28/01	SW846 8260B

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**- Analytical Report -**

Project Name : MEDLEY

Submitter : RMT - GREENVILLE

Project Number : 71243.04

Report Date : 04/03/01

Field ID : FBLK-01101

Collection Date : 03/22/01

Lab Sample Number : 910836-011

Matrix Type : WATER

Lab Project Number : 910836

WI DNR LAB ID : 113172950

**Volatile Organic Results**

**SPECIAL VOLATILE LIST - WATER**

Prep Method: SW846 5030

Analyte	Result	EQL	Units	Code	Analysis Date	Analysis Method
1,1,1-Trichloroethane	< 1.0	1.0	ug/L	*	03/28/01	SW846 8260B
1,1,2-Trichloroethane	< 1.0	1.0	ug/L		03/28/01	SW846 8260B
1,1-Dichloroethane	< 1.0	1.0	ug/L		03/28/01	SW846 8260B
1,1-Dichloroethene	< 1.0	1.0	ug/L		03/28/01	SW846 8260B
1,2-Dichloroethane	< 1.0	1.0	ug/L		03/28/01	SW846 8260B
2-Butanone	< 5.0	5.0	ug/L		03/28/01	SW846 8260B
Acetone	< 5.0	5.0	ug/L		03/28/01	SW846 8260B
Benzene	< 1.0	1.0	ug/L		03/28/01	SW846 8260B
Chloroform	< 1.0	1.0	ug/L		03/28/01	SW846 8260B
Chloromethane	< 2.0	2.0	ug/L		03/28/01	SW846 8260B
cis-1,2-Dichloroethene	< 1.0	1.0	ug/L		03/28/01	SW846 8260B
Methylene chloride	< 1.0	1.0	ug/L		03/28/01	SW846 8260B
Tetrachloroethene	< 1.0	1.0	ug/L		03/28/01	SW846 8260B
trans-1,2-Dichloroethene	< 1.0	1.0	ug/L		03/28/01	SW846 8260B
Trichloroethene	< 1.0	1.0	ug/L		03/28/01	SW846 8260B

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**- Analytical Report -**

Project Name : MEDLEY

Submitter : RMT - GREENVILLE

Project Number : 71243.04

Report Date : 04/03/01

Field ID : MW4-1

Collection Date : 03/22/01

Lab Sample Number : 910836-012

Matrix Type : WATER

Lab Project Number : 910836

WI DNR LAB ID : 113172950

**Volatile Organic Results**

**SPECIAL VOLATILE LIST - WATER**

Prep Method: SW846 5030

Analyte	Result	EQL	Units	Code	Analysis Date	Analysis Method
1,1,1-Trichloroethane	< 1.0	1.0	ug/L	*	03/28/01	SW846 8260B
1,1,2-Trichloroethane	14	1.0	ug/L		03/28/01	SW846 8260B
1,1-Dichloroethane	< 1.0	1.0	ug/L		03/28/01	SW846 8260B
1,1-Dichloroethene	5.6	1.0	ug/L		03/28/01	SW846 8260B
1,2-Dichloroethane	1.8	1.0	ug/L		03/28/01	SW846 8260B
2-Butanone	< 5.0	5.0	ug/L		03/28/01	SW846 8260B
Acetone	< 5.0	5.0	ug/L		03/28/01	SW846 8260B
Benzene	< 1.0	1.0	ug/L		03/28/01	SW846 8260B
Chloroform	51	1.0	ug/L		03/28/01	SW846 8260B
Chloromethane	< 2.0	2.0	ug/L		03/28/01	SW846 8260B
cis-1,2-Dichloroethene	2.3	1.0	ug/L		03/28/01	SW846 8260B
Methylene chloride	< 1.0	1.0	ug/L		03/28/01	SW846 8260B
Tetrachloroethene	69	1.0	ug/L		03/28/01	SW846 8260B
trans-1,2-Dichloroethene	< 1.0	1.0	ug/L		03/28/01	SW846 8260B
Trichloroethene	180	1.0	ug/L		03/28/01	SW846 8260B

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**- Analytical Report -**

Project Name : MEDLEY

Submitter : RMT - GREENVILLE

Project Number : 71243.04

Report Date : 04/03/01

Field ID : BW-108

Collection Date : 03/22/01

Lab Sample Number : 910836-013

Matrix Type : WATER

Lab Project Number : 910836

WI DNR LAB ID : 113172950

**Volatile Organic Results**

**SPECIAL VOLATILE LIST - WATER**

Prep Method: SW846 5030

Analyte	Result	EQL	Units	Code	Analysis Date	Analysis Method
1,1,1-Trichloroethane	< 1.0	1.0	ug/L	*	03/28/01	SW846 8260B
1,1,2-Trichloroethane	< 1.0	1.0	ug/L		03/28/01	SW846 8260B
1,1-Dichloroethane	< 1.0	1.0	ug/L		03/28/01	SW846 8260B
1,1-Dichloroethene	< 1.0	1.0	ug/L		03/28/01	SW846 8260B
1,2-Dichloroethane	< 1.0	1.0	ug/L		03/28/01	SW846 8260B
2-Butanone	< 5.0	5.0	ug/L		03/28/01	SW846 8260B
Acetone	< 5.0	5.0	ug/L		03/28/01	SW846 8260B
Benzene	< 1.0	1.0	ug/L		03/28/01	SW846 8260B
Chloroform	< 1.0	1.0	ug/L		03/28/01	SW846 8260B
Chloromethane	< 2.0	2.0	ug/L		03/28/01	SW846 8260B
cis-1,2-Dichloroethene	0.63	1.0	ug/L	J	03/28/01	SW846 8260B
Methylene chloride	< 1.0	1.0	ug/L		03/28/01	SW846 8260B
Tetrachloroethene	1.8	1.0	ug/L		03/28/01	SW846 8260B
trans-1,2-Dichloroethene	< 1.0	1.0	ug/L		03/28/01	SW846 8260B
Trichloroethene	2.5	1.0	ug/L		03/28/01	SW846 8260B

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**- Analytical Report -**

Project Name : MEDLEY

Submitter : RMT - GREENVILLE

Project Number : 71243.04

Report Date : 04/03/01

Field ID : DP3-1

Collection Date : 03/22/01

Lab Sample Number : 910836-014

Matrix Type : WATER

Lab Project Number : 910836

WI DNR LAB ID : 113172950

**Volatile Organic Results**

**SPECIAL VOLATILE LIST - WATER**

Prep Method: SW846 5030

Analyte	Result	EQL	Units	Code	Analysis Date	Analysis Method
1,1,1-Trichloroethane	< 5.0	5.0	ug/L	*	03/28/01	SW846 8260B
1,1,2-Trichloroethane	< 5.0	5.0	ug/L		03/28/01	SW846 8260B
1,1-Dichloroethane	< 5.0	5.0	ug/L		03/28/01	SW846 8260B
1,1-Dichloroethene	33	5.0	ug/L		03/28/01	SW846 8260B
1,2-Dichloroethane	19	5.0	ug/L		03/28/01	SW846 8260B
2-Butanone	< 25	25	ug/L		03/28/01	SW846 8260B
Acetone	< 25	25	ug/L		03/28/01	SW846 8260B
Benzene	< 5.0	5.0	ug/L		03/28/01	SW846 8260B
Chloroform	30	5.0	ug/L		03/28/01	SW846 8260B
Chloromethane	< 10	10	ug/L		03/28/01	SW846 8260B
cis-1,2-Dichloroethene	< 5.0	5.0	ug/L		03/28/01	SW846 8260B
Methylene chloride	< 5.0	5.0	ug/L		03/28/01	SW846 8260B
Tetrachloroethene	86	5.0	ug/L		03/28/01	SW846 8260B
trans-1,2-Dichloroethene	< 5.0	5.0	ug/L		03/28/01	SW846 8260B
Trichloroethene	560	5.0	ug/L		03/28/01	SW846 8260B

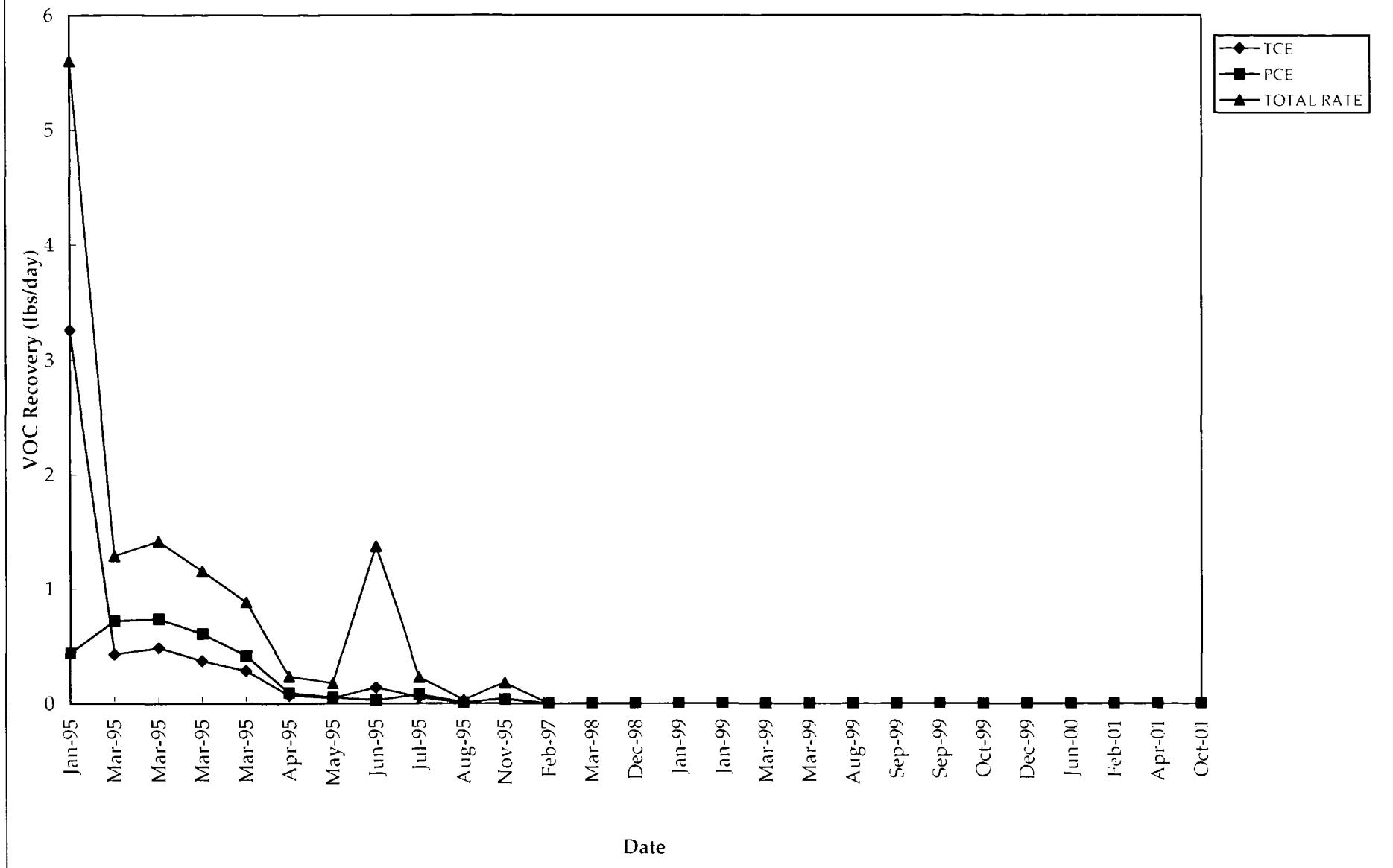
### Organic Data Qualifier Sheet

- B Analyte is present in the method blank. Method blank criteria is evaluated to the laboratory LOD. Additionally, method blank acceptance may be based on project specific criteria or determined from analyte concentrations in the sample and are evaluated on a sample by sample basis.
- C Elevated detection limit (see Sample Narrative).
- D Analyte value from diluted analysis.
- DL No surrogate recovery available due to sample dilution.
- E Analyte concentration exceeds calibration range (see Sample Narrative).
- F Repeated surrogate failure (see Sample Narrative).
- G Sample exhibits hydrocarbon pattern resembling gasoline.
- H(n) Analysis performed "n" days past holding time.
- J Qualitative evidence of analyte present: concentration detected is greater than the method detection limit but less than the reporting limit.
- K Detection Limit may be elevated due to the presence of an unrequested analyte (see Sample Narrative).
- L Detects in trip blank.
- M Methanol leakage.
- N Spiked sample recovery not within control limits.
- ND Not Detected.
- NR Not Required.
- P The relative percent difference for detected concentrations between the two GC columns was greater than 40% difference.
- Q The analyte has been detected between the Limit of Detection (LOD) and limit of Quantitation (LOQ). The results are qualified due to the uncertainty of analyte concentrations within this range.
- U# Elevated LOD due to matrix interference.
- V Heavy hydrocarbon present.
- W Sample received with headspace.
- X See Sample Narrative
- Z See Sample Narrative
- SUB Assay was subcontracted to an approved lab.
- SUB Assay was subcontracted to En Chem Green Bay WI Cert. # : 405132750.
- & Laboratory Control Spike recovery not within control limits (See Sample Narrative).
- \* Duplicate analyses not within control limits.

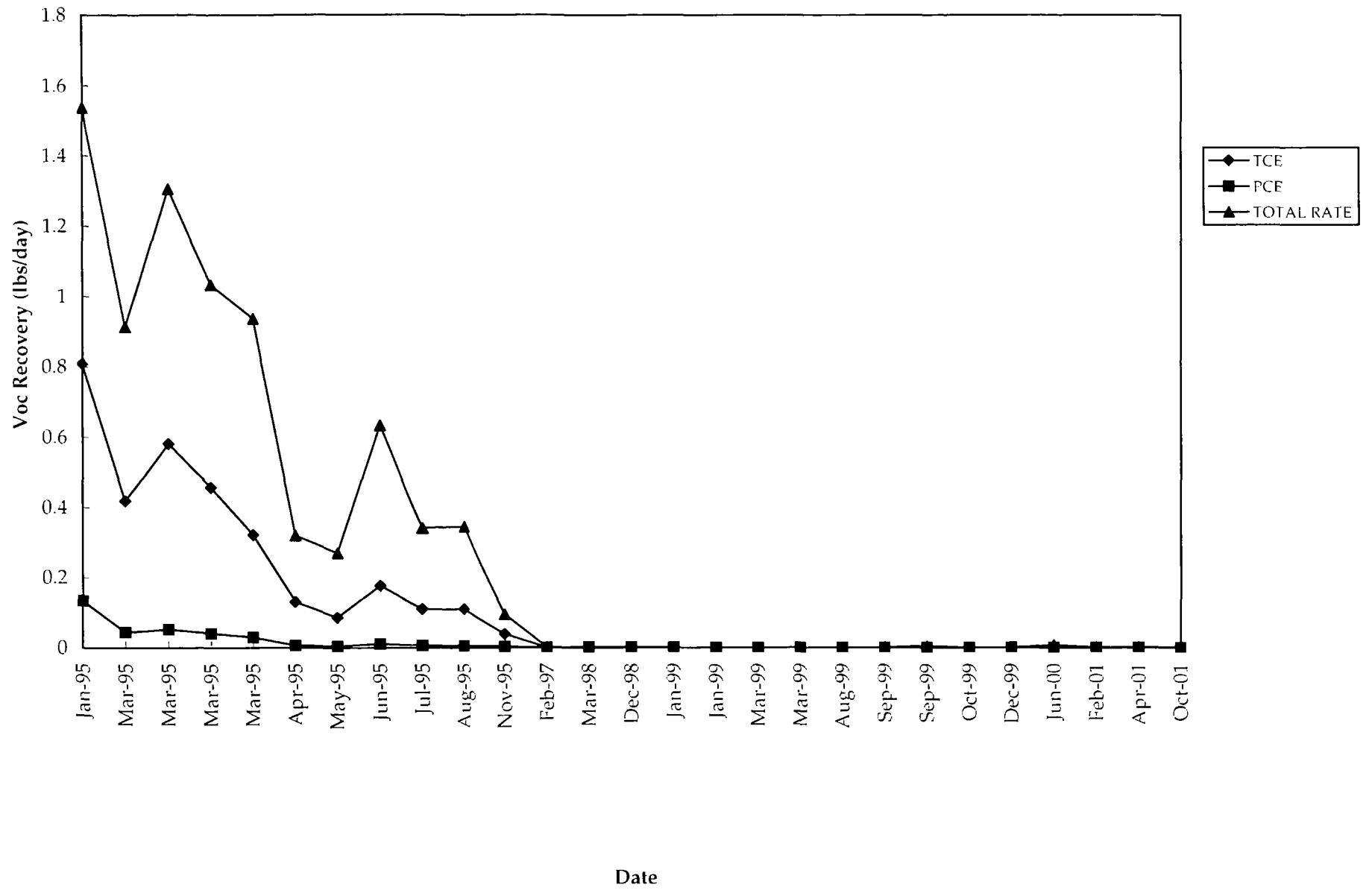
# **Appendix F**

## **Soil Vapor Extraction Performance Graphs**

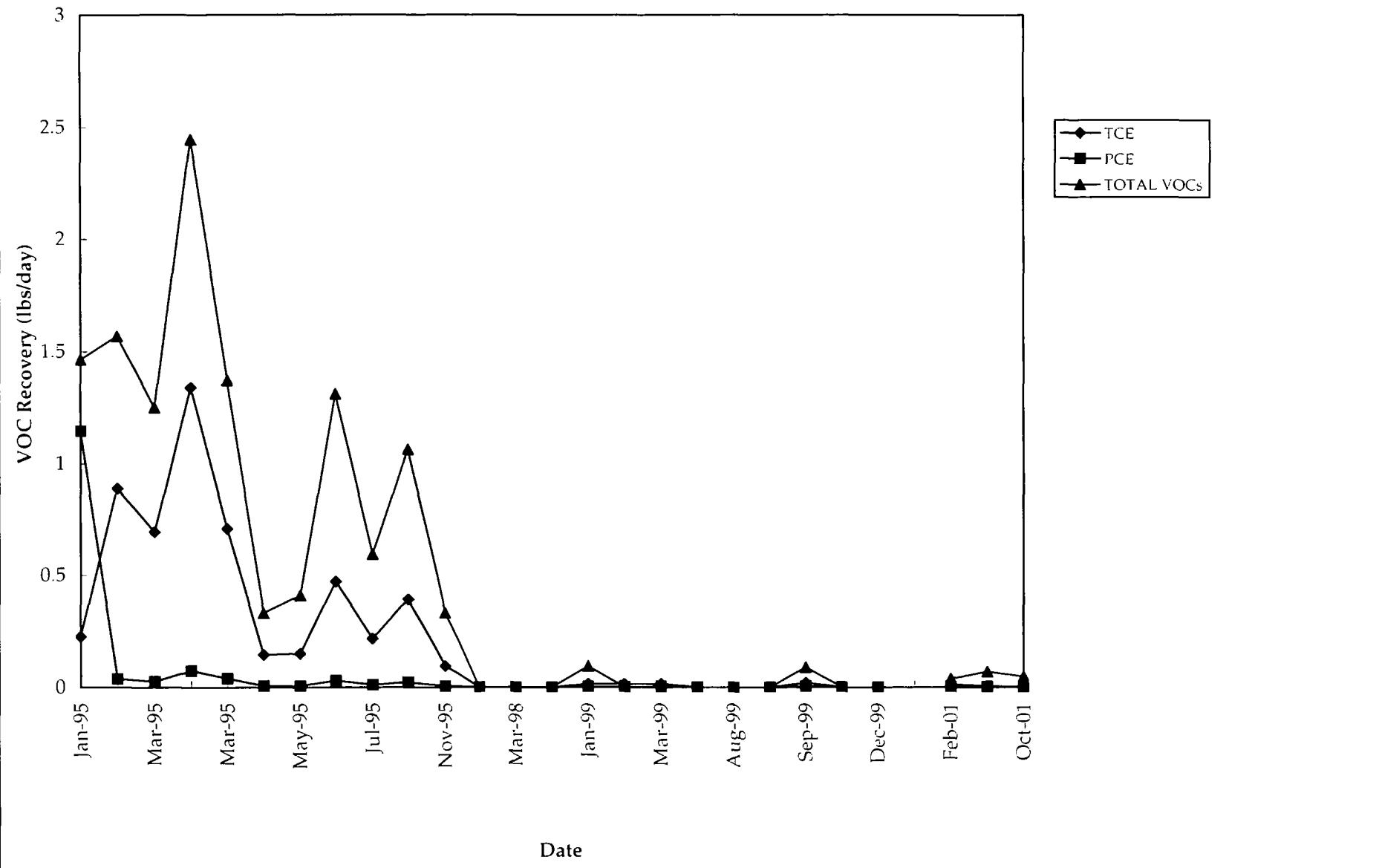
Appendix F  
Historical VOC Recovery Rates  
VE-301



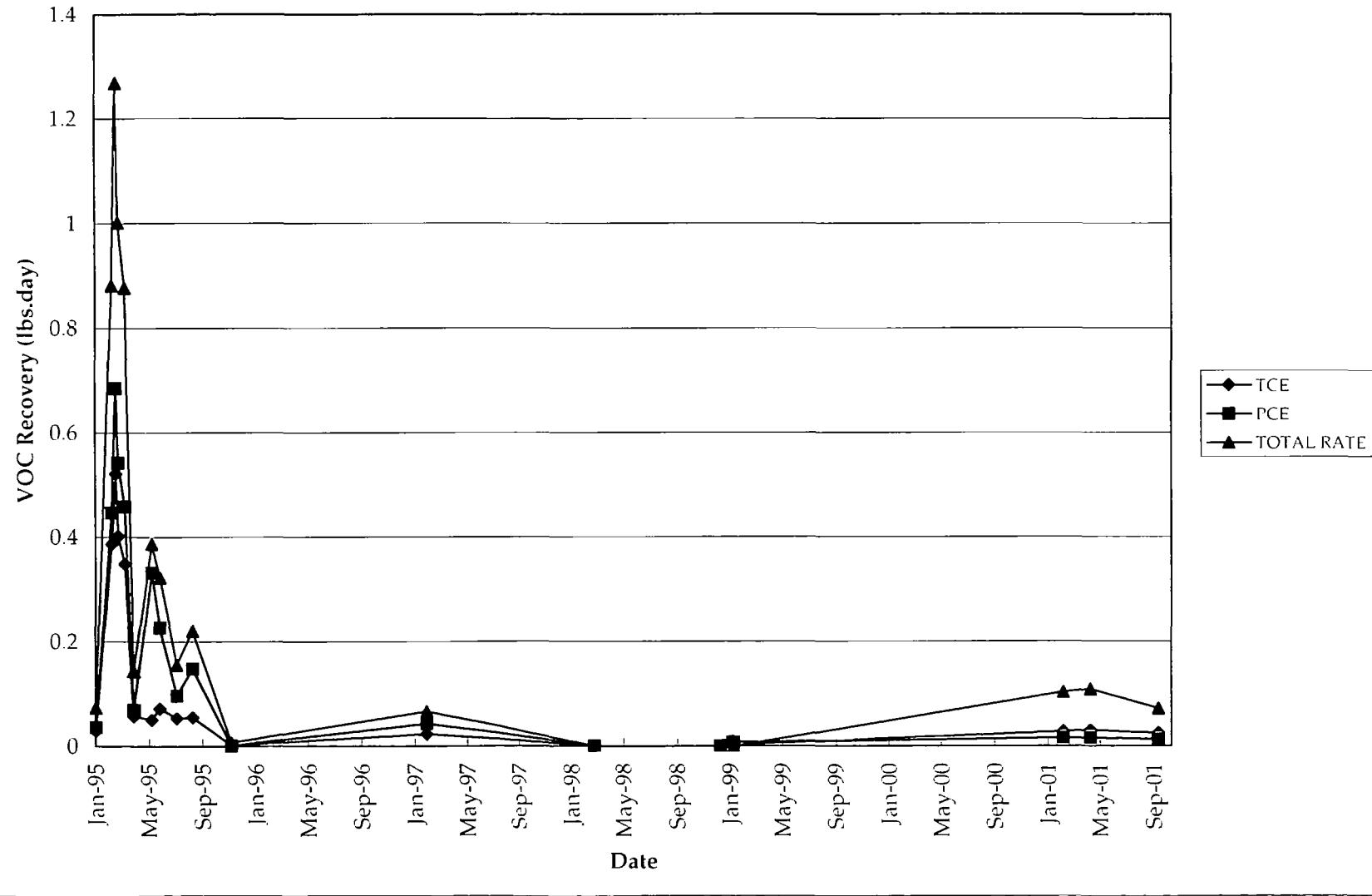
Appendix F  
Historical VOC Recovery Rates  
VE-302



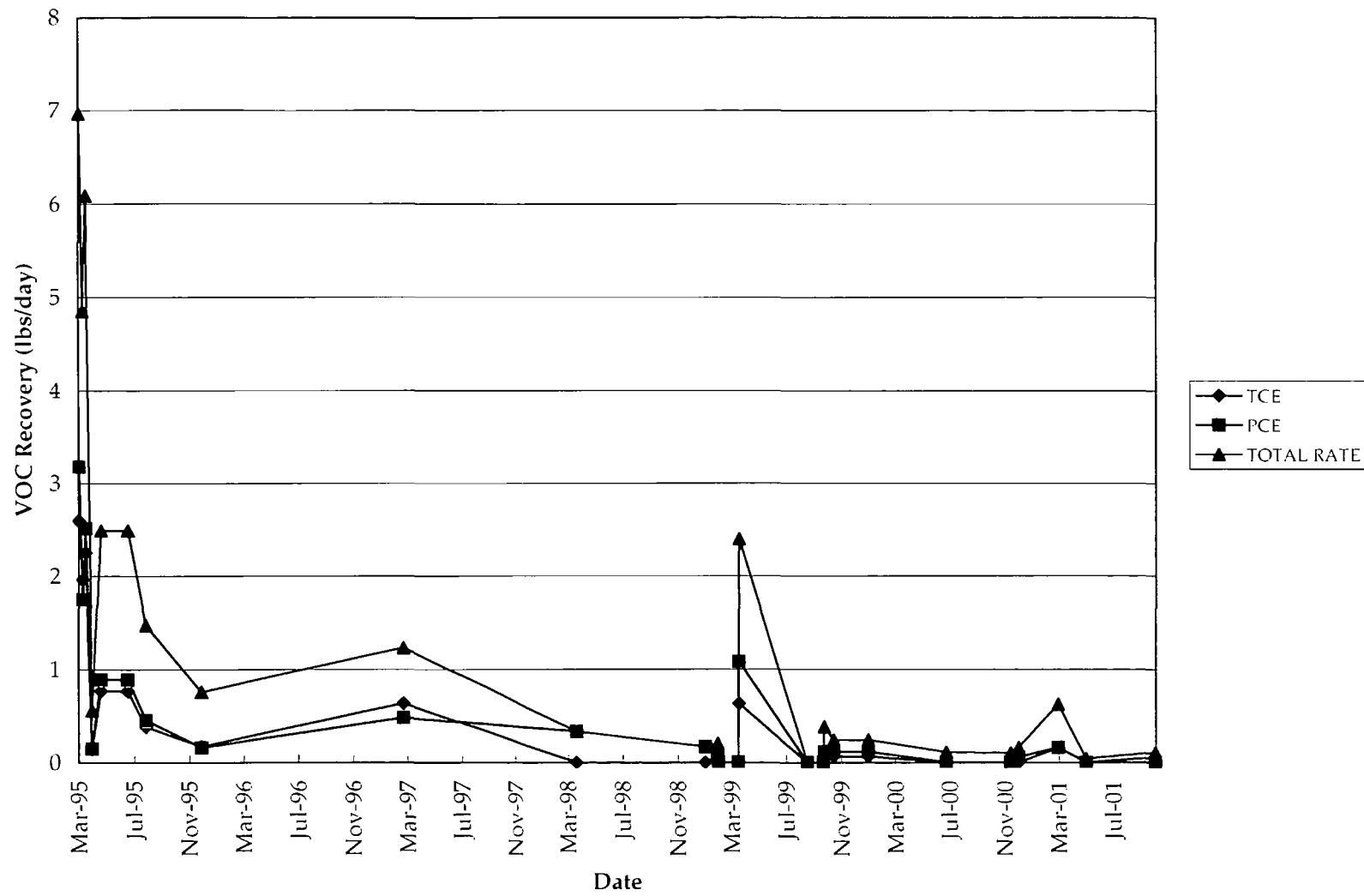
Appendix F  
Historical VOC Recovery Rates  
VE-303



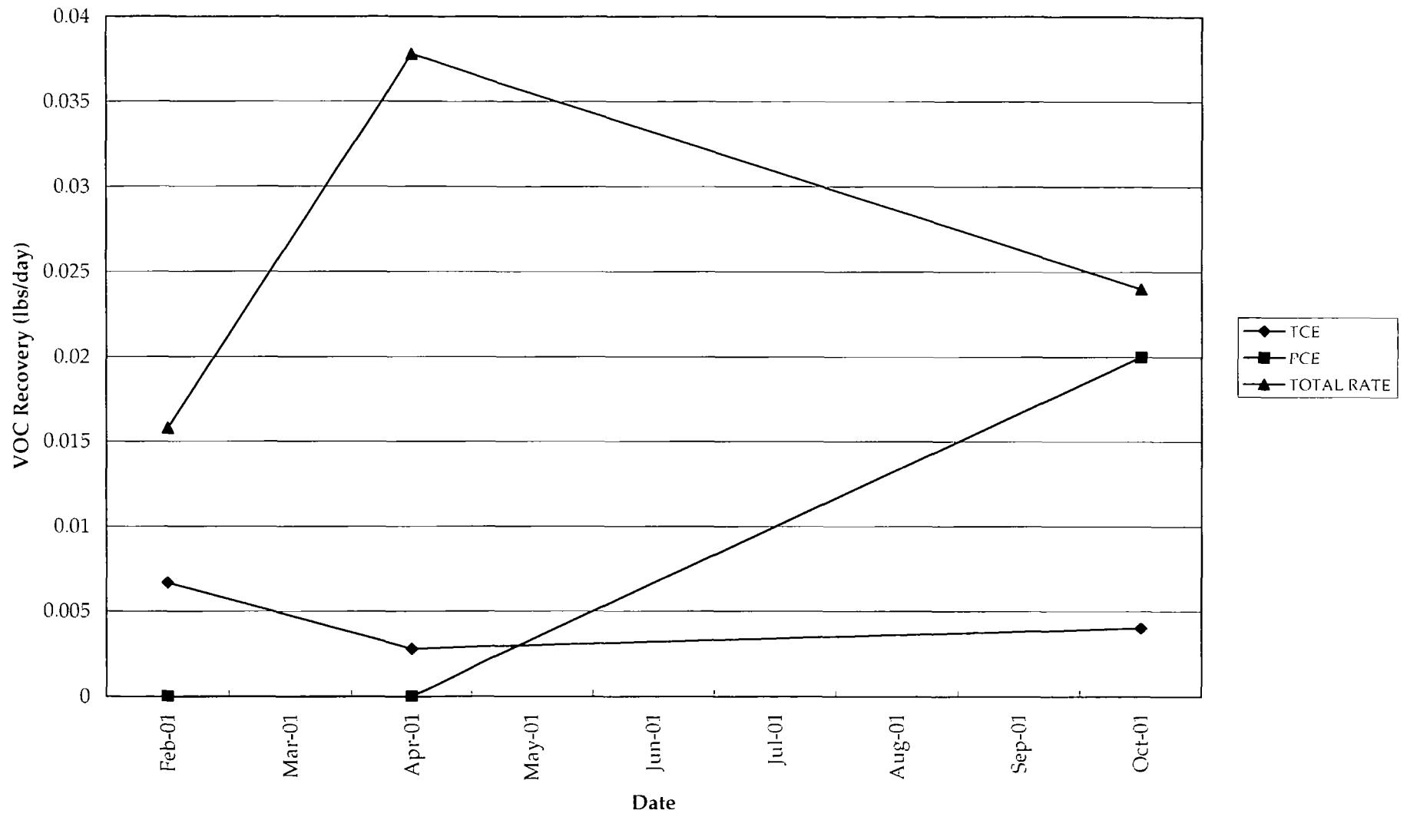
**Appendix F**  
**Historical VOC Recovery Rates**  
**VE-304**



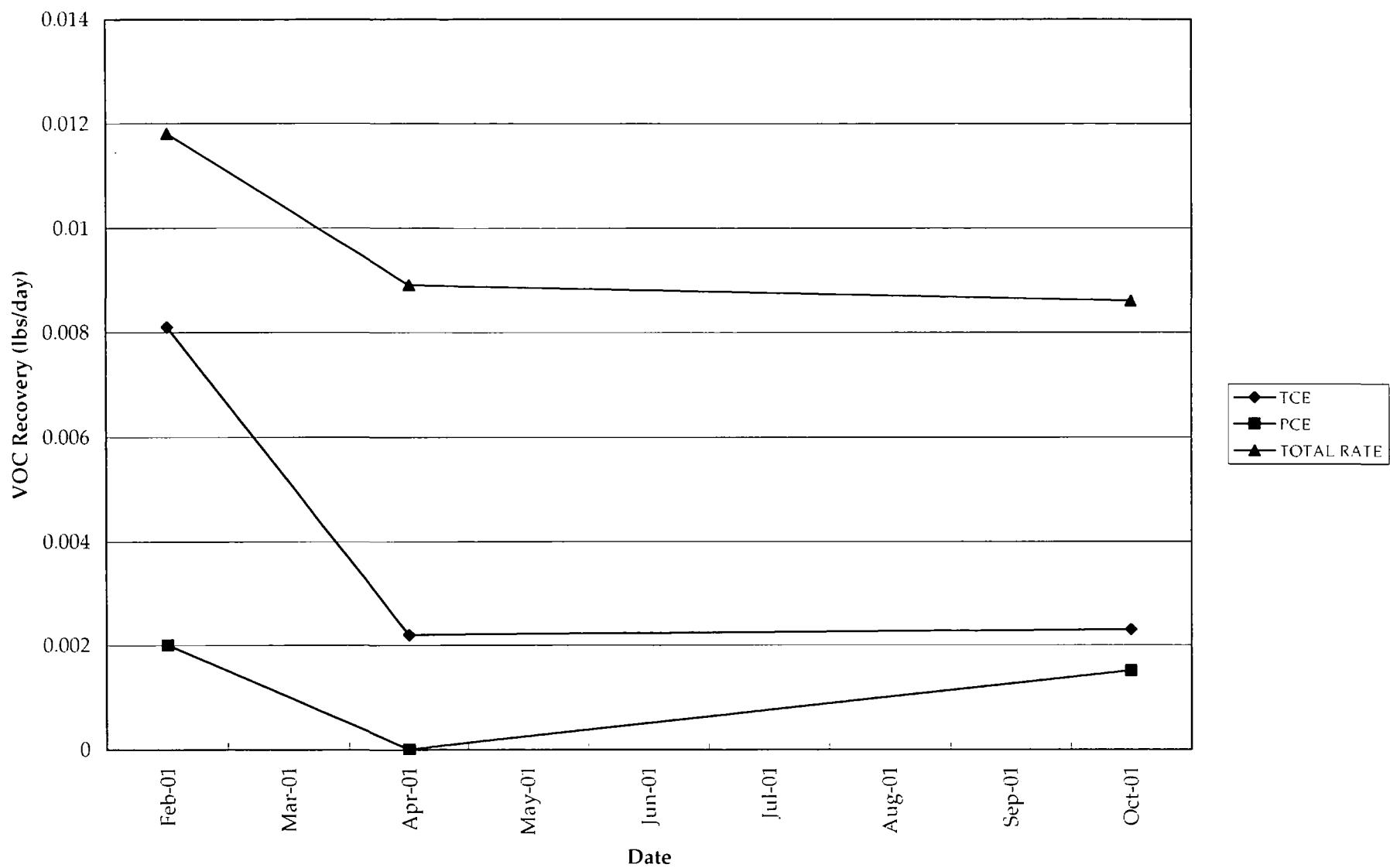
**Appendix F**  
**Historical VOC Recovery Rate**  
**Stack**



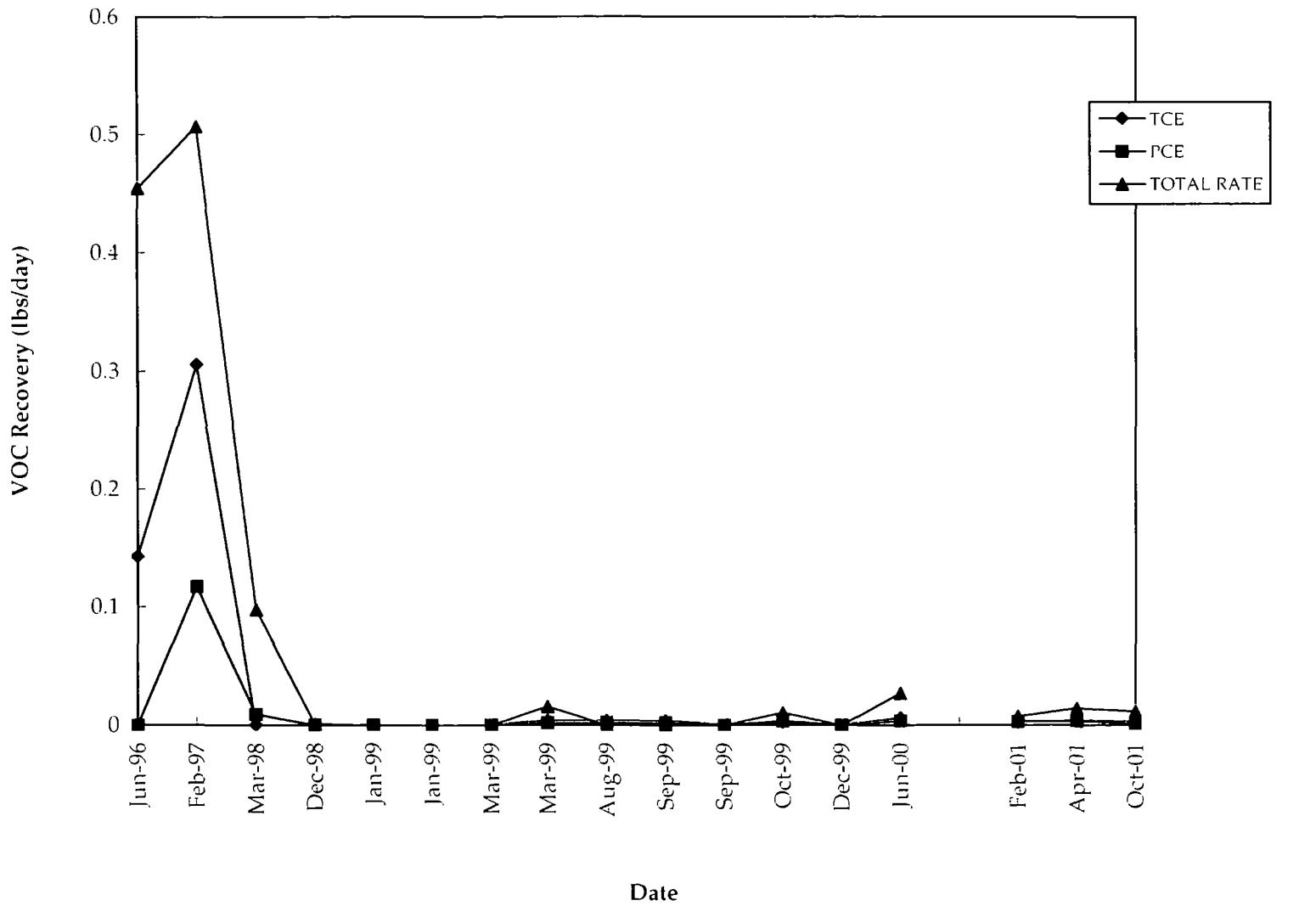
Appendix F  
Historical VOC Recovery Rate  
DP-3-1



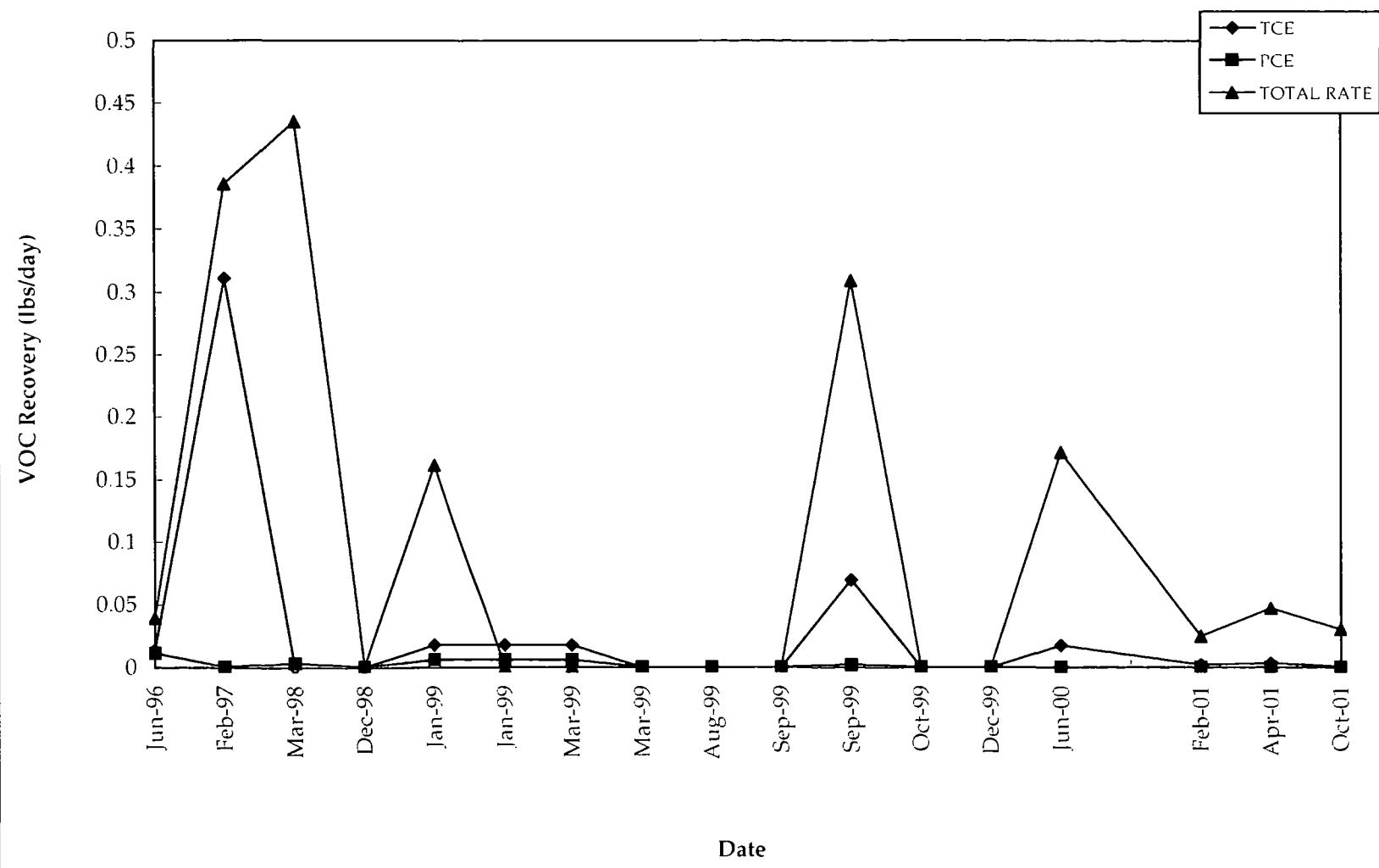
Appendix F  
Historical VOC Recovery Rate  
DP-3-2



**Appendix F**  
**Historical VOC Recovery Rates**  
**VM-301D**



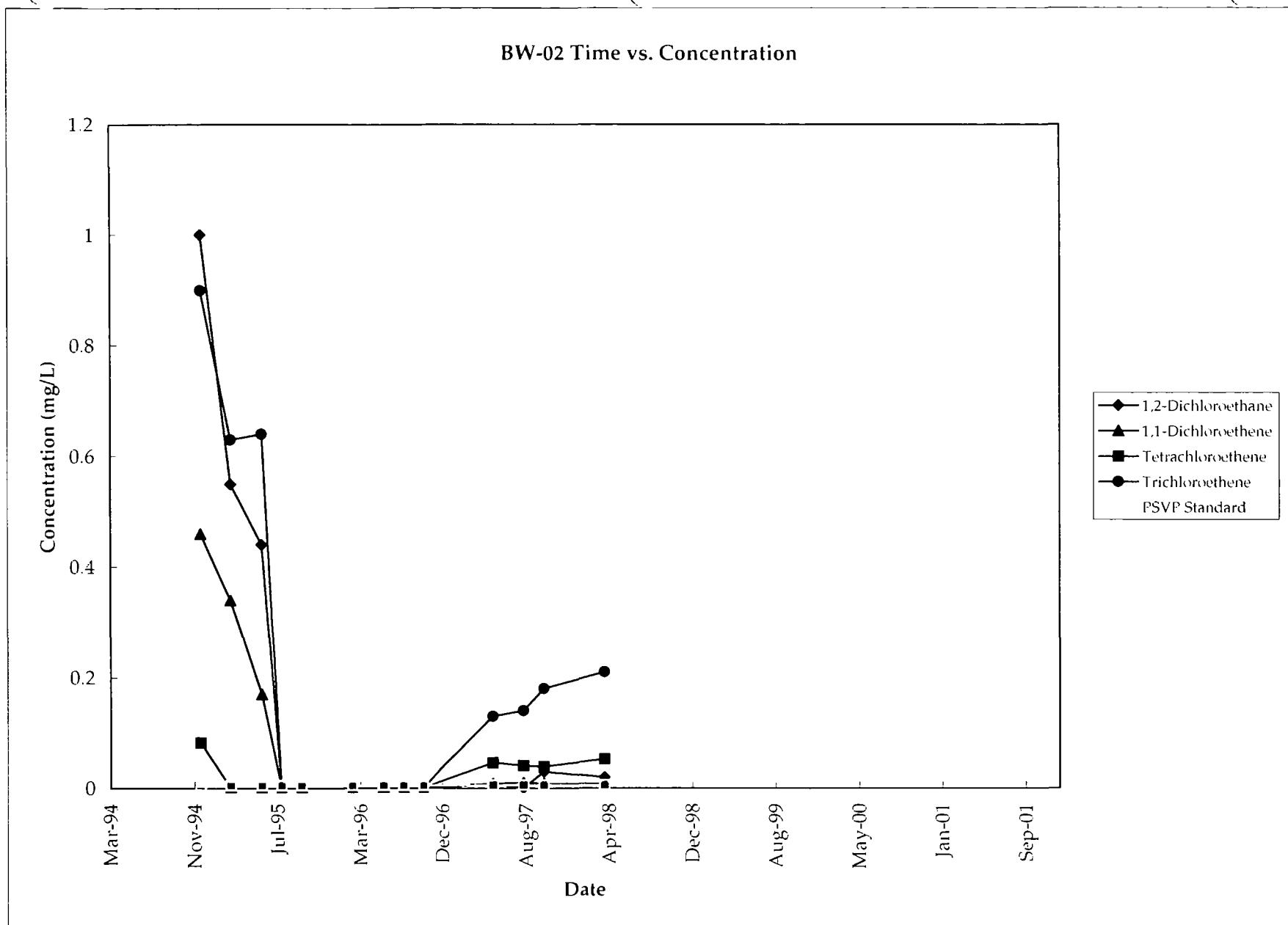
**Appendix F**  
**Historical VOC Recovery Rates**  
**VM-304S**

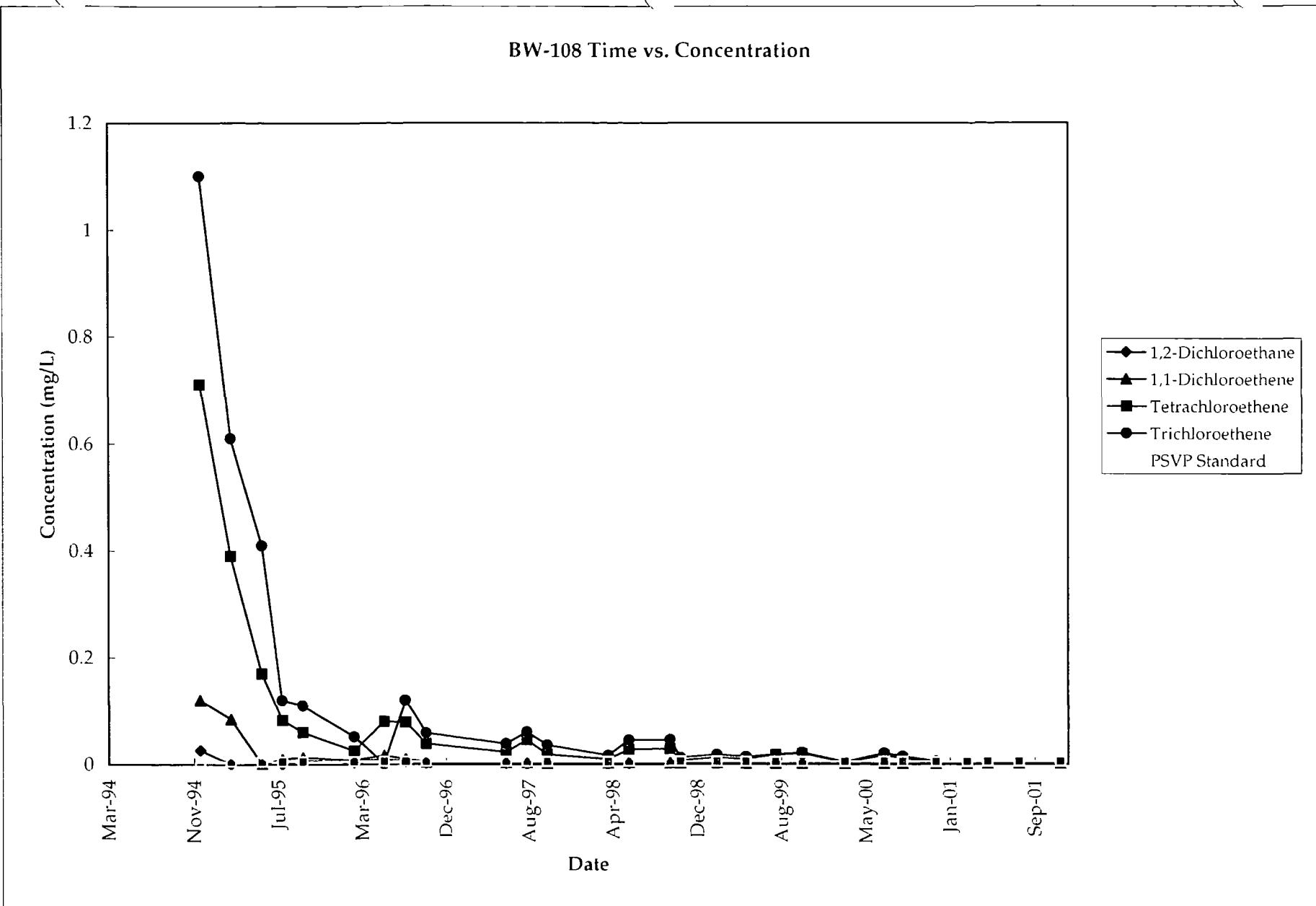


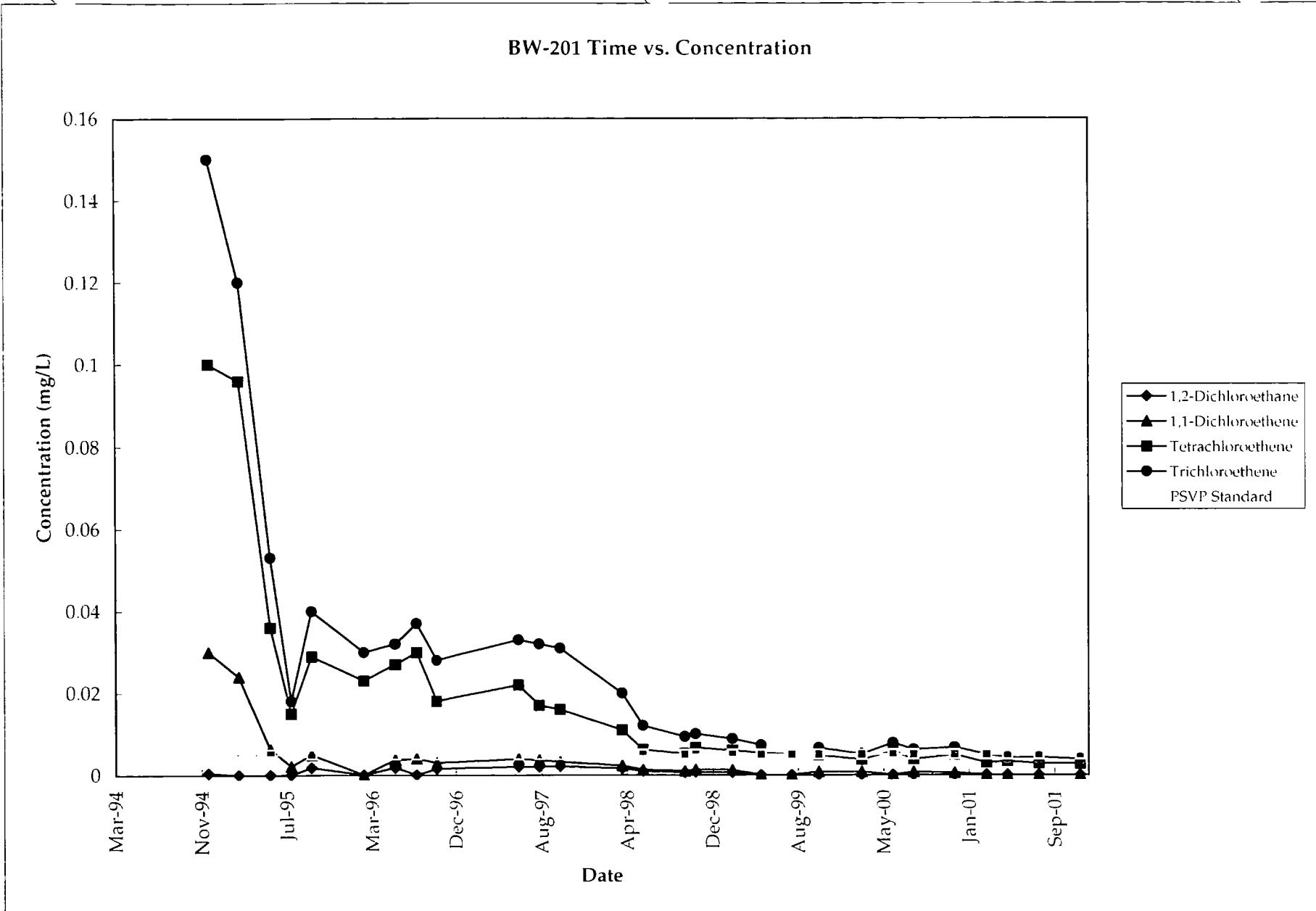
## Appendix G

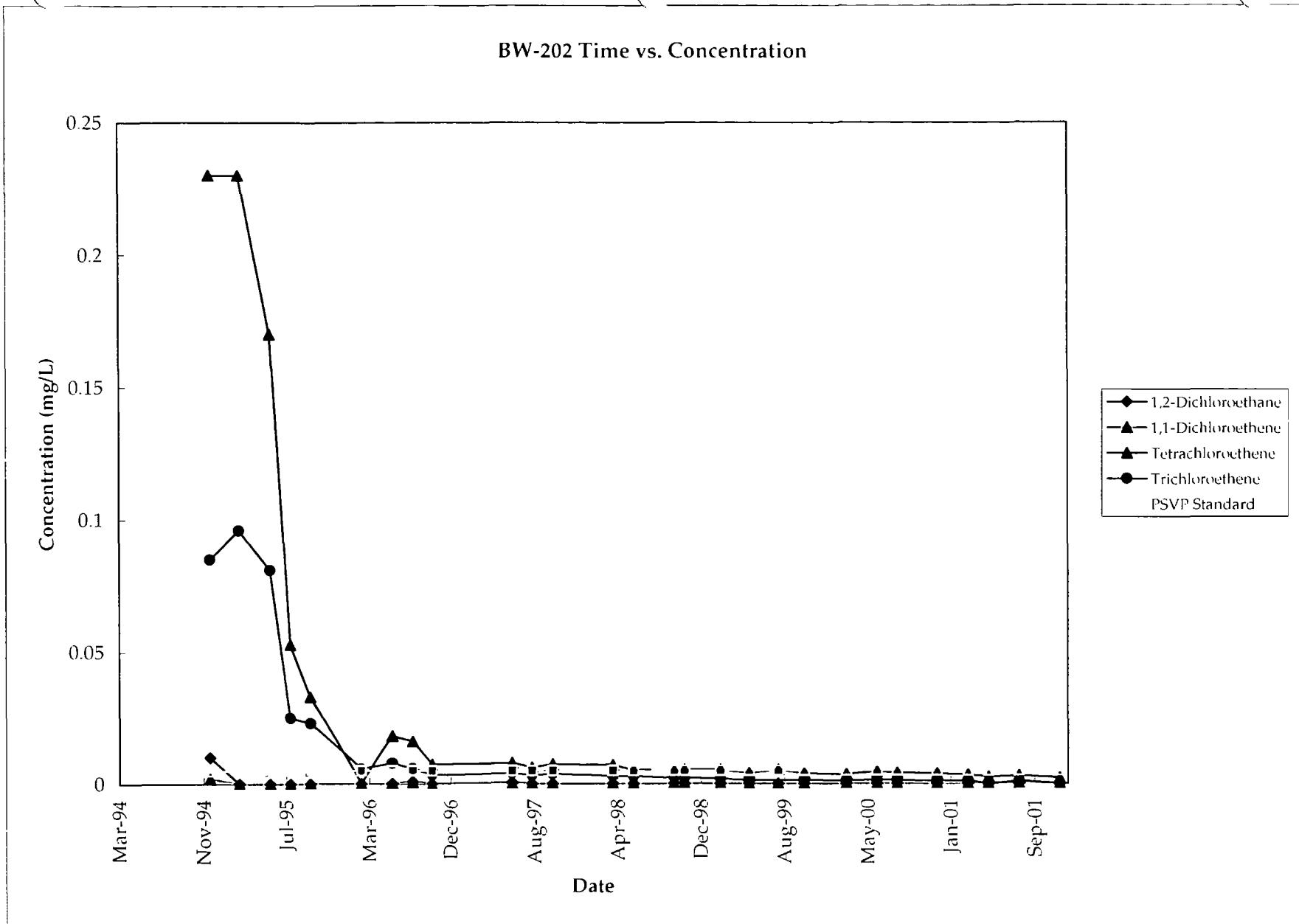
### Time vs. Concentration Graphs

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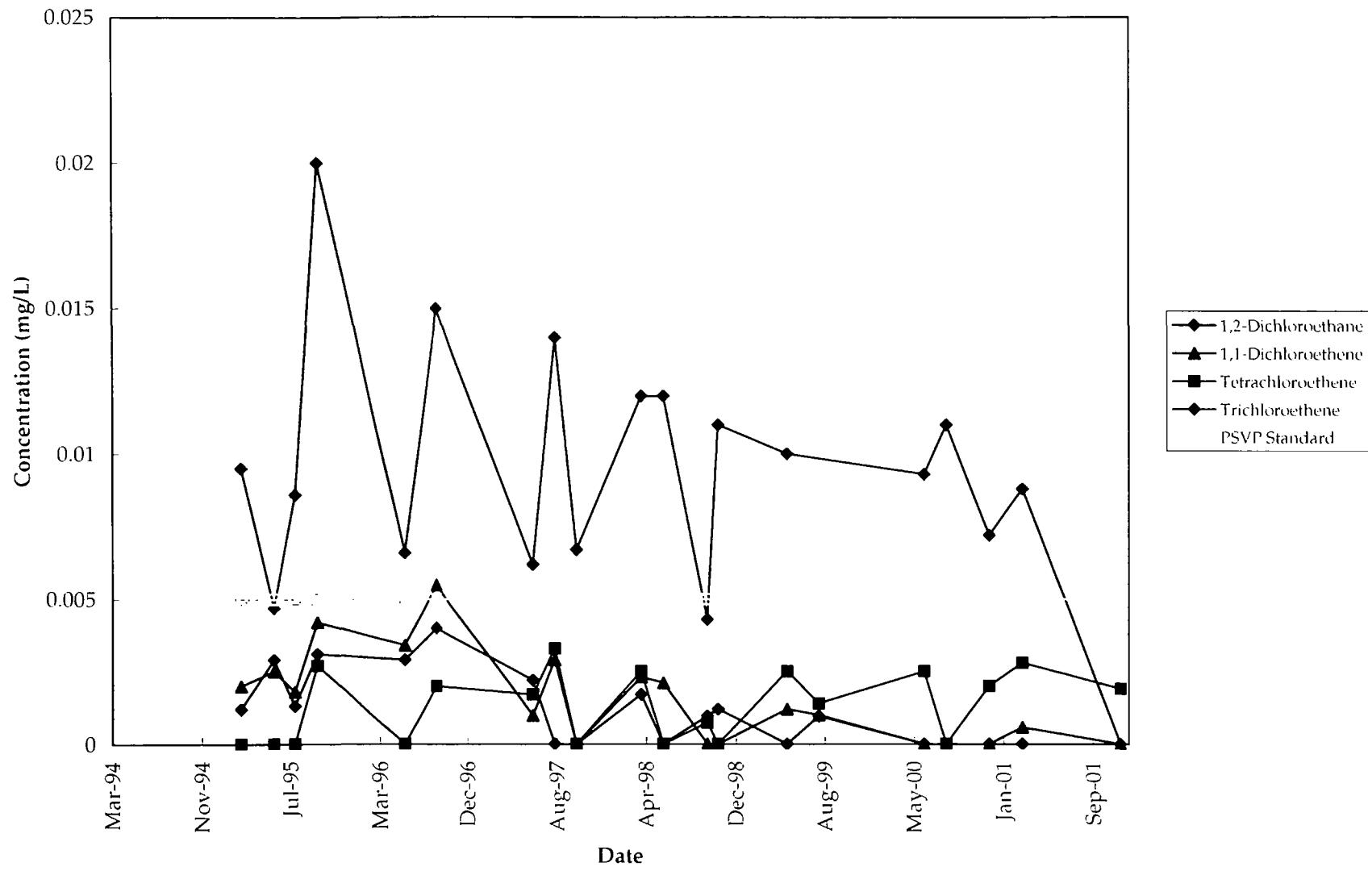


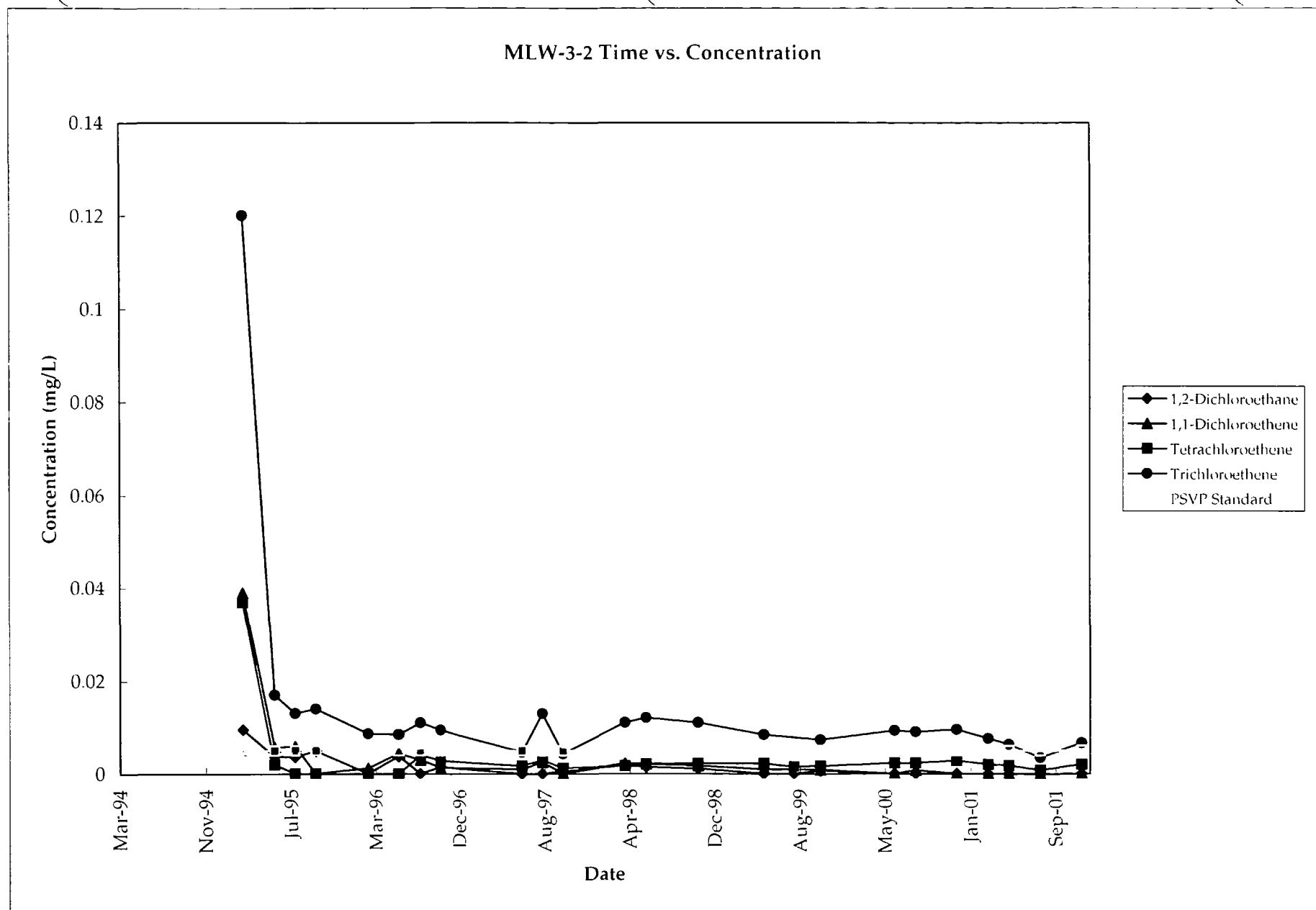


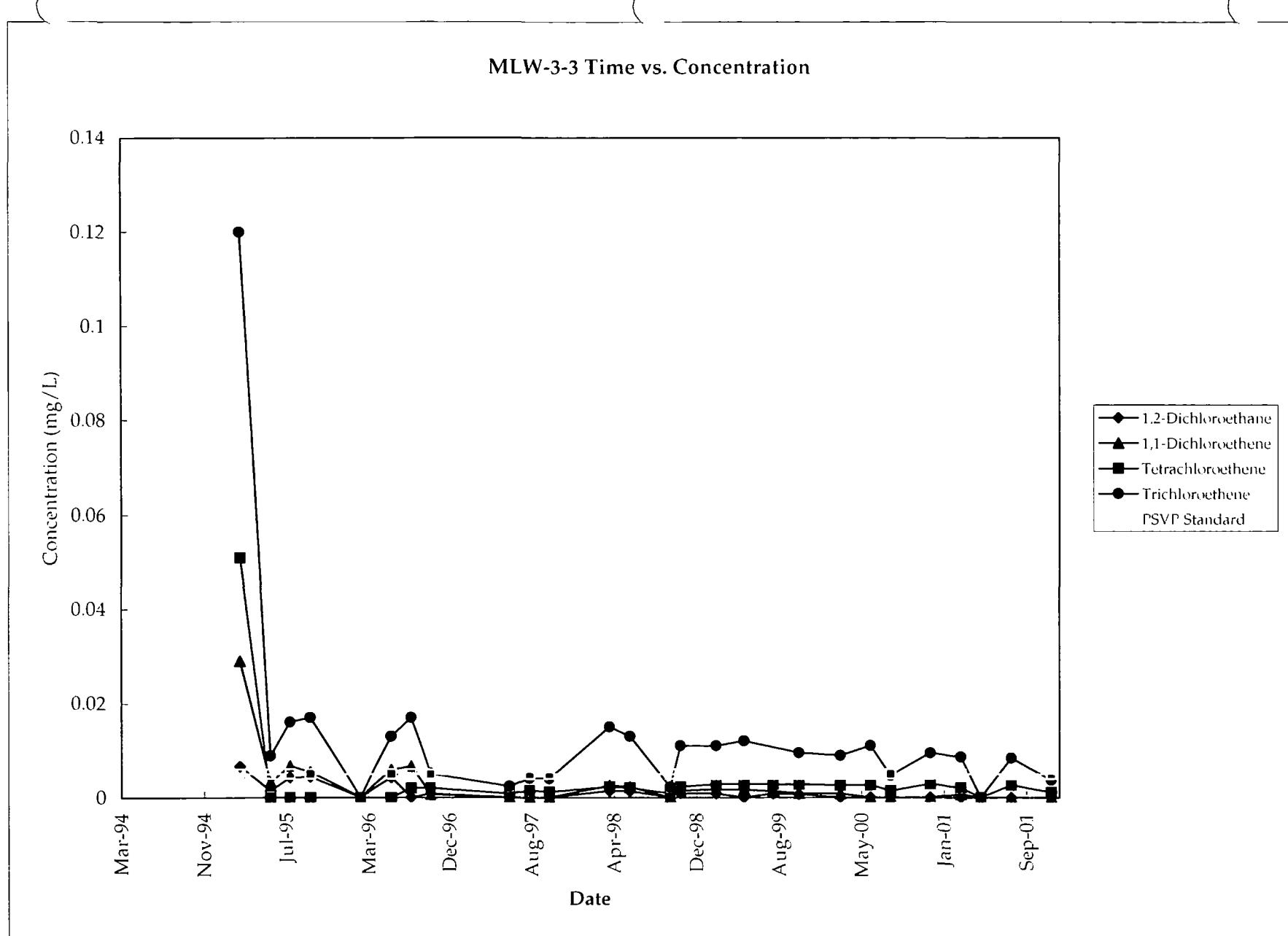




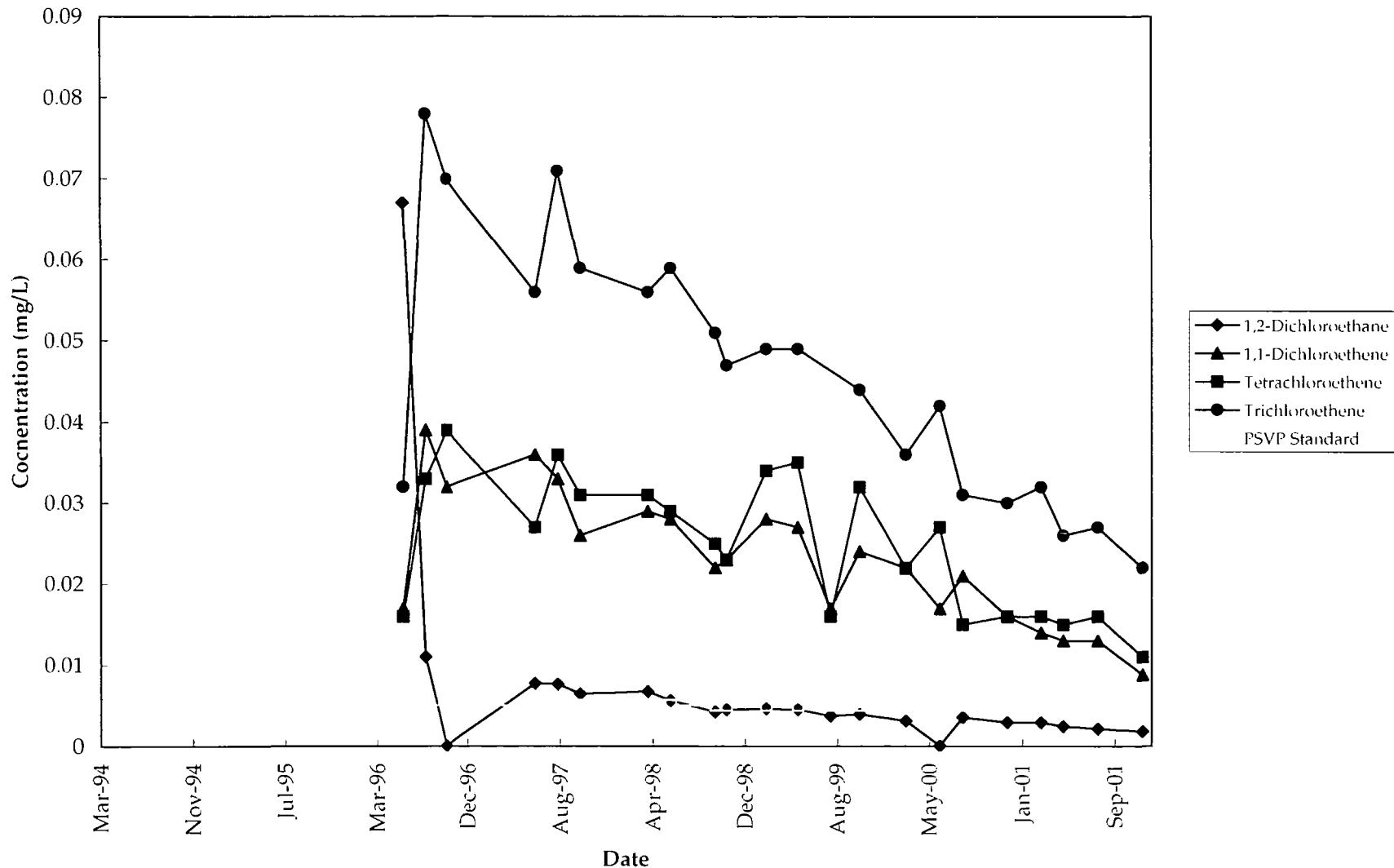
### MLW3-1 Time vs. Concentration

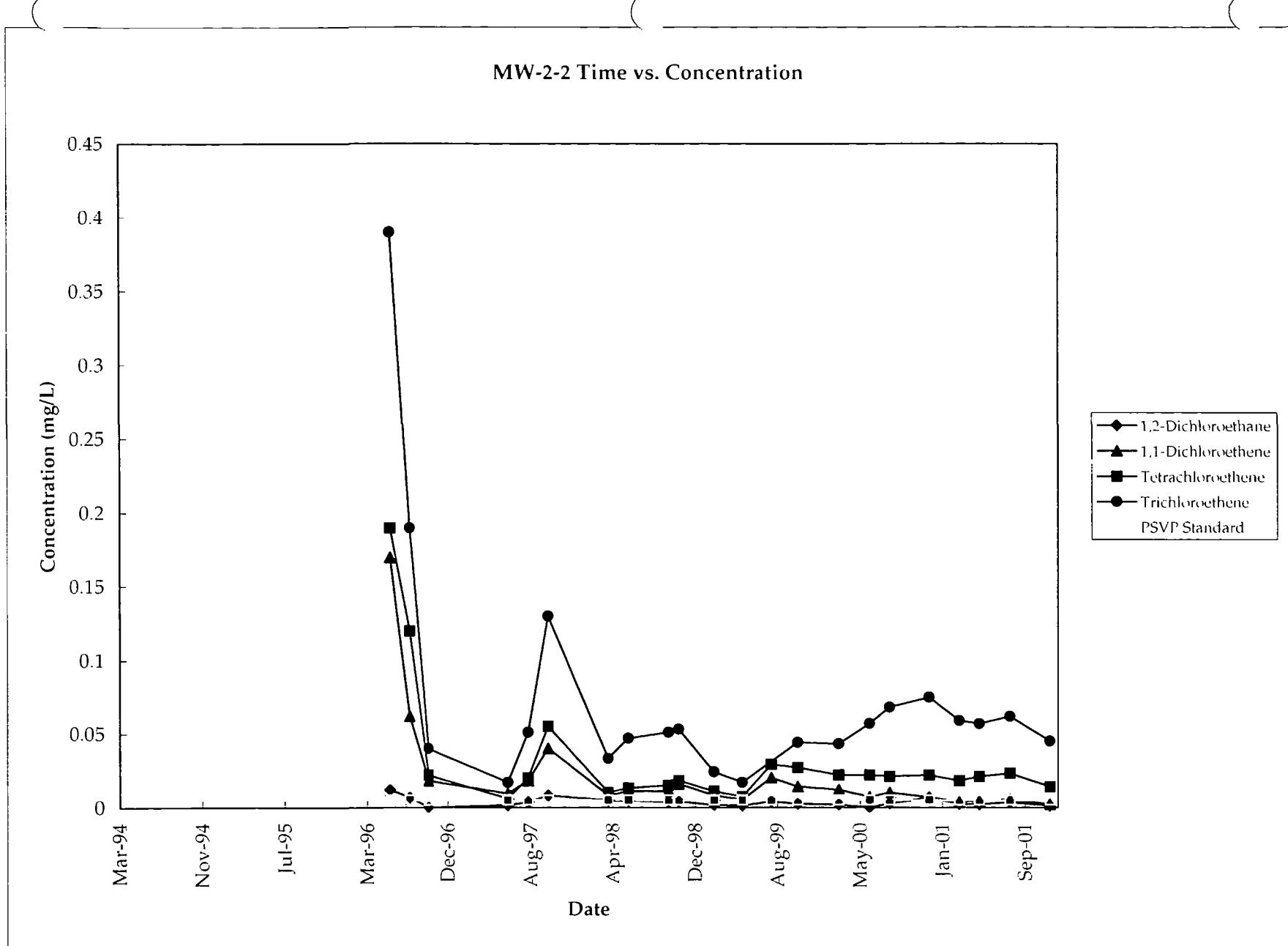


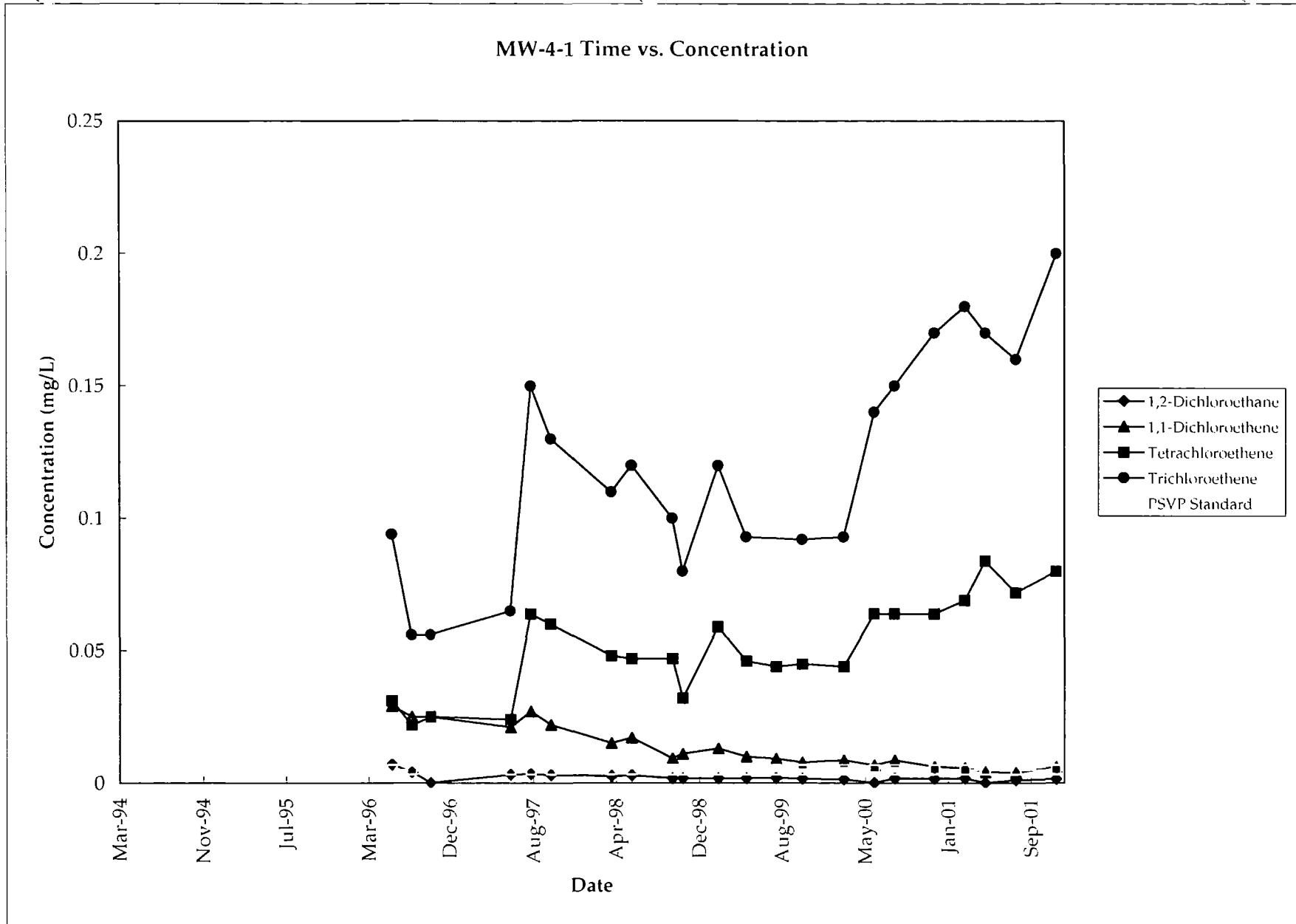


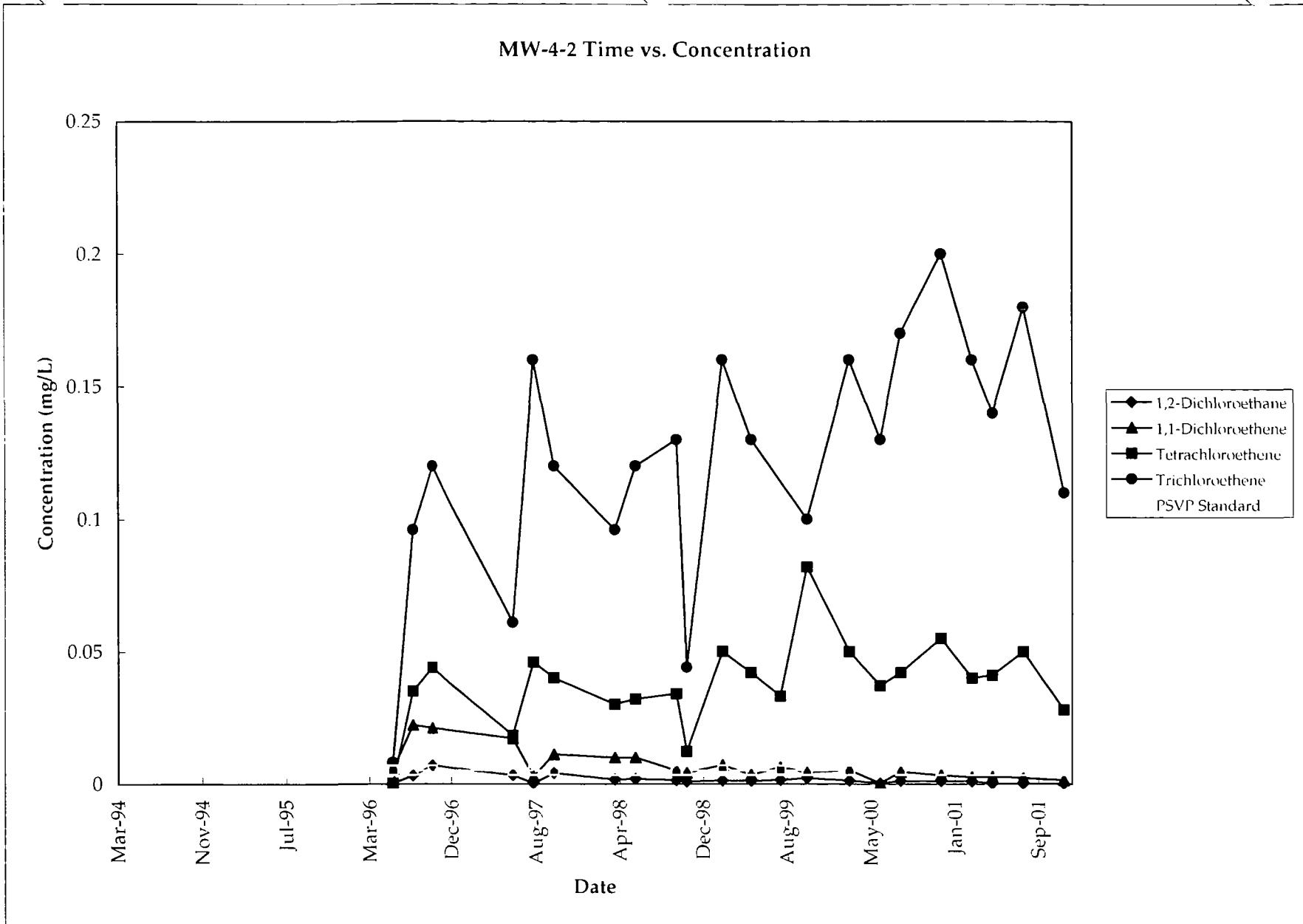


### MW-2-1 Time vs. Concentration

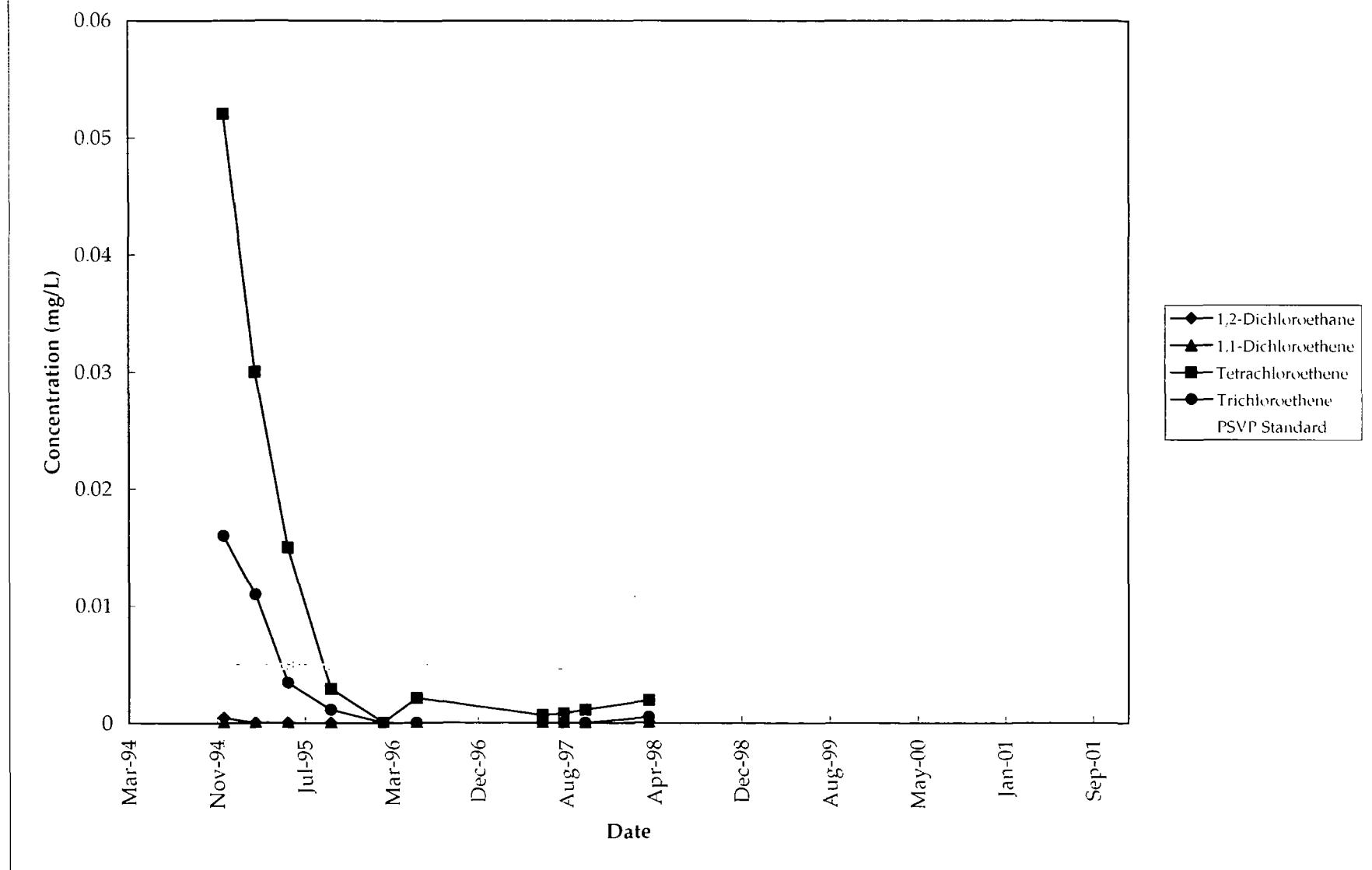




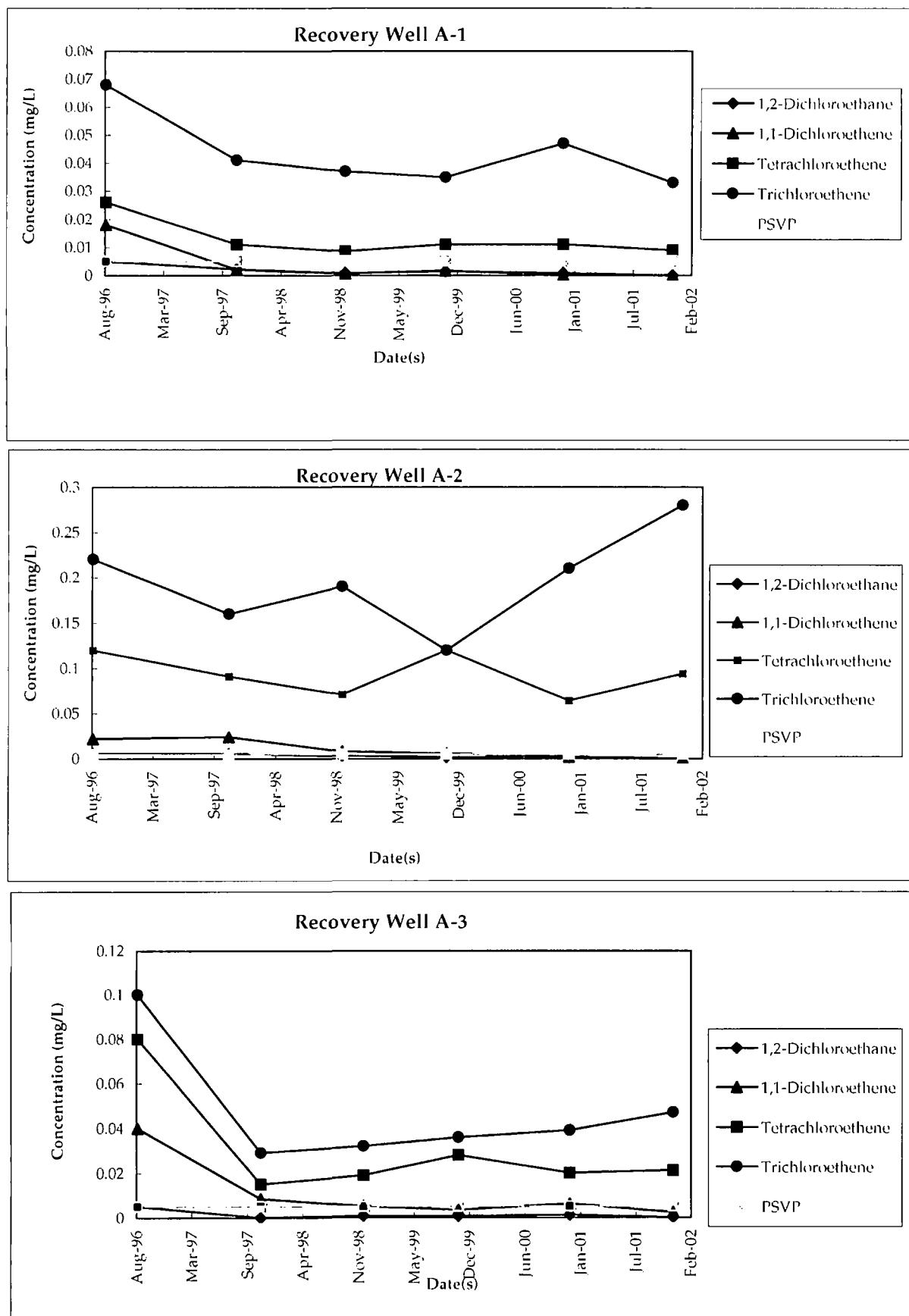




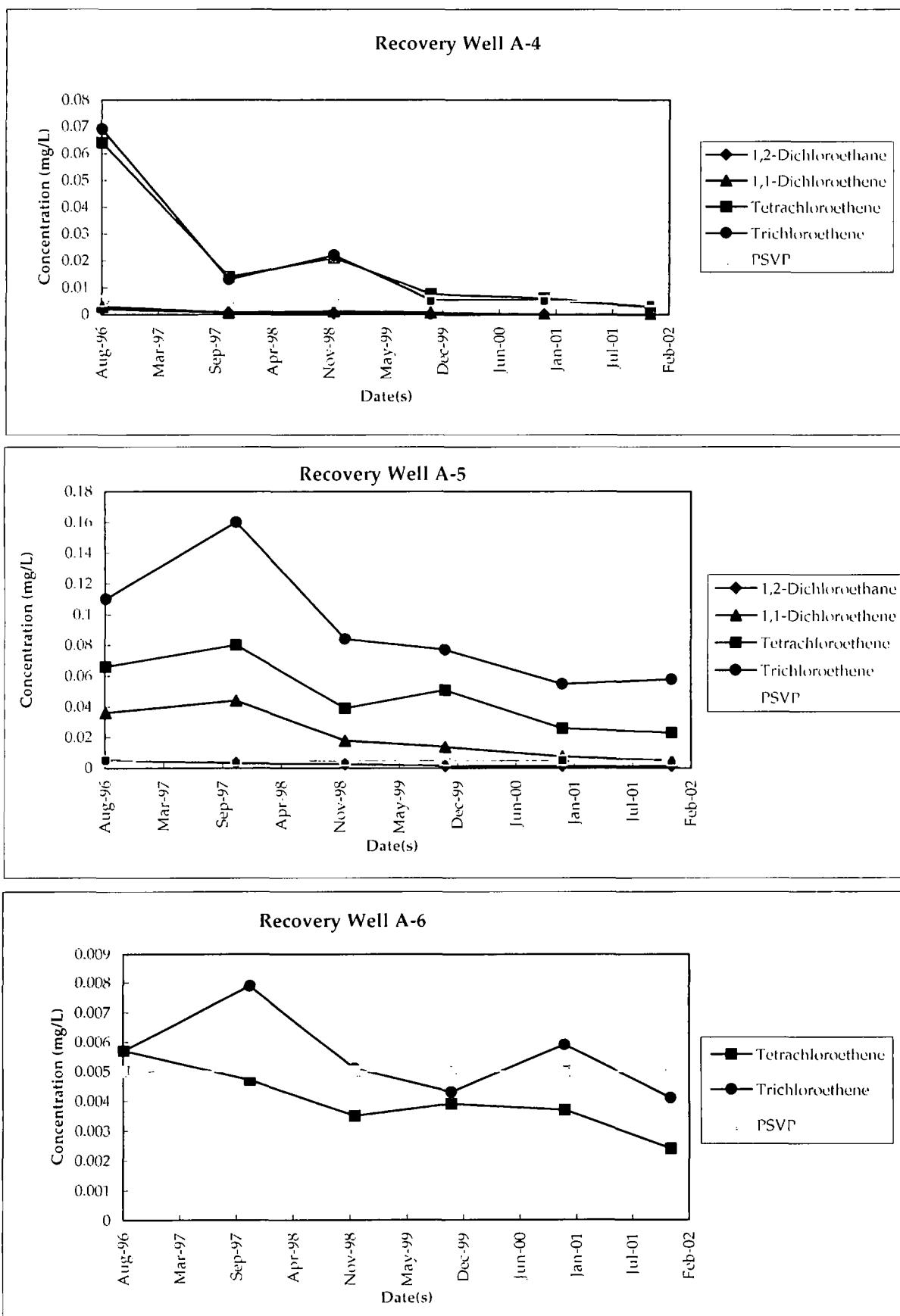
### SW-202 Time vs. Concentration



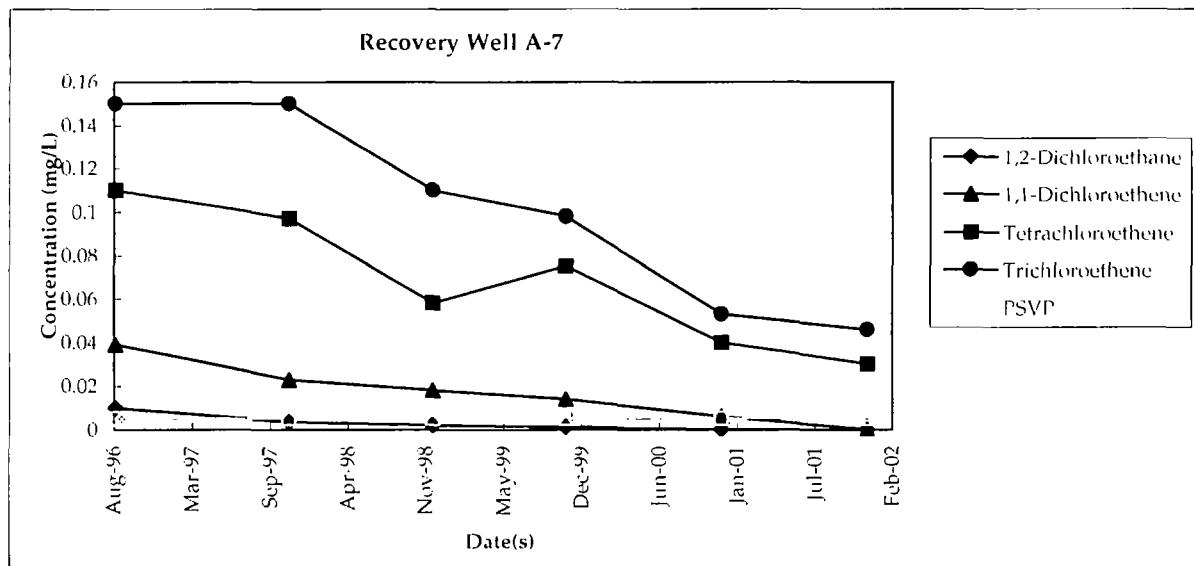
**Appendix G**  
**Time vs. Concentration Graphs**



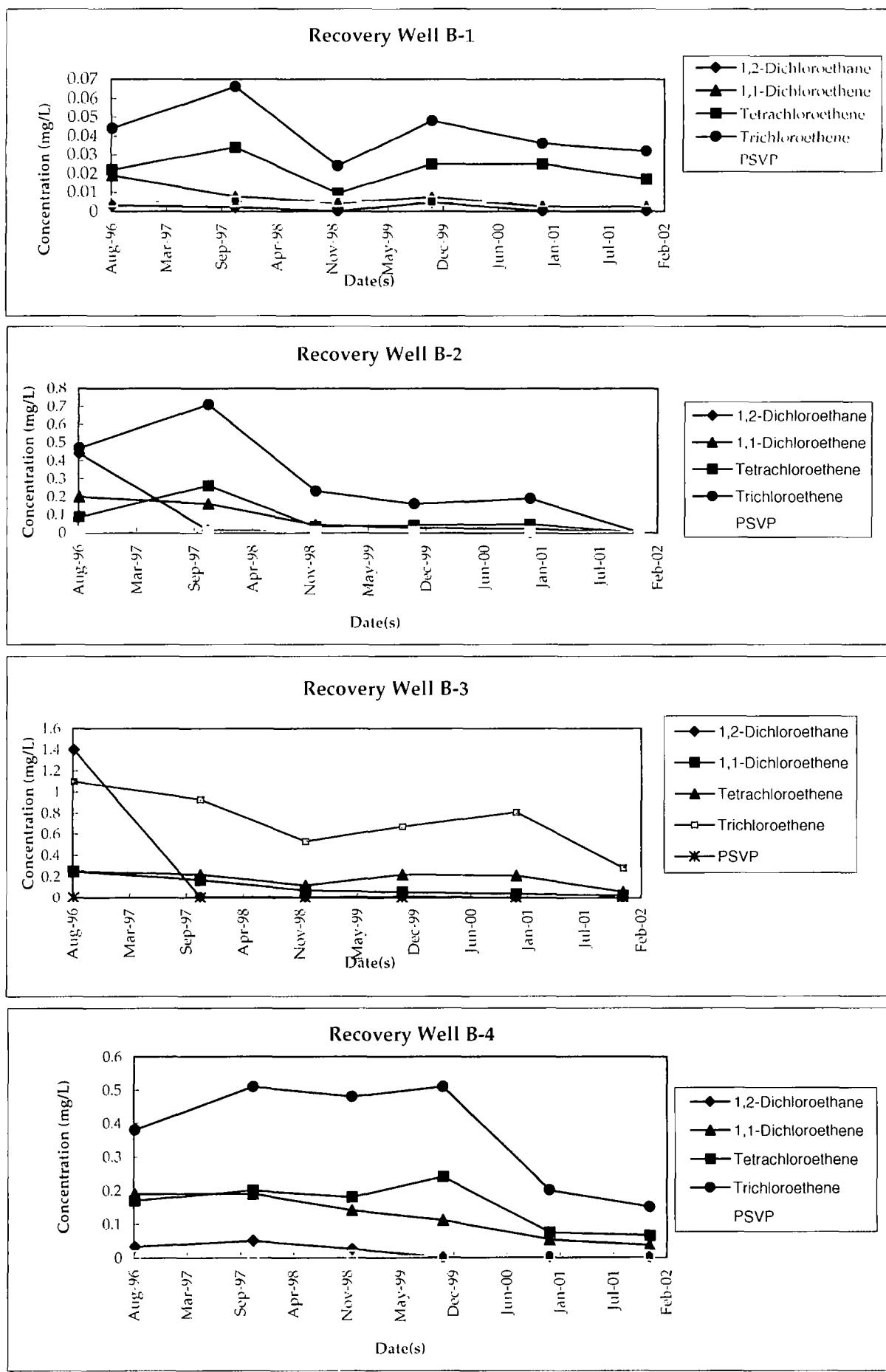
**Appendix G**  
**Time vs. Concentration Graphs**



**Appendix G**  
**Time vs. Concentration Graphs**



## Time vs. Concentration Graphs



U. S. EPA REGION IV

# SDMS

## Unscannable Material Target Sheet

DocID: 10295407

Site ID: SCD980558142

Site Name: Medley Farms

Nature of Material:

Map: ✓

Computer Disks: \_\_\_\_\_

Photos: \_\_\_\_\_

CD-ROM: \_\_\_\_\_

Blueprints: \_\_\_\_\_

Oversized Report: \_\_\_\_\_

Slides: \_\_\_\_\_

Log Book: \_\_\_\_\_

Other (describe): Water Table Configuration

Amount of material: One

\*Please contact the appropriate Records Center to view the material.\*